



OWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS

147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 ♦ Fax 508-278-3179

Benn S. Sherman, P.E.
Director

MEMORANDUM

DATE: March 3, 2021
TO: Steven Sette, Town Manager
Jeanne Daley, Capital Committee
FROM: Benn S. Sherman, P.E. 
RE: DPW Capital Planning Requests-FY2022-2031 (Version 1)

As requested, I am providing the Department of Public Works capital plan for FY2022-2031. This plan considers the needs of the DPW Highway Division (General Fund) only. Additional enterprise fund capital needs will be forthcoming pending the results of current studies and concurrence from the Board of Selectmen/Water & Sewer Commissioners.

It is well known the deficiencies in the Departments rolling stock are taking its toll on the Highway Division and Snow and Ice budgets. The capital plan continues to be heavy with the rolling stock because a number of capital requests have fallen into the “*Previously Requested*” category. This category continues to grow every year at the same time the condition of our infrastructure, rolling stock, and other equipment continue to decline.

I worked with strategic staff throughout the DPW to evaluate and provide a fresh perspective with all the existing and new capital requests submitted. Attached please find the updated capital requests for the Uxbridge Department of Public Works (Highway/Parks). This summary is intended to provide additional information that should be considered with high priority requests.

The updated plan consists of the previously requested, reprioritized requests and new items. The Department utilized the new format for submitting requests. Some of the items include our best estimate for the capital need. We are working with our consultants to obtain actual budget figures for planning and design items. We will continue to pursue many opportunities to secure funding from non-traditional sources and continue to evaluate the projects and programs and how they impact the Department’s mission.

Also included with this information are the Special Article/Capital Project Summary sheets associated with the open projects.

Thank you for your consideration of our plan and the support given the Department of Public Works in past years. Please let me know if this does not meet your needs or if I can provide additional details on the proposals.

CC: Paul Morante, Highway Supervisor
Lisa Troast, Treasurer/Collector

Attachment: Special Article/Capital Project Summary Sheets
2022-2031 CIP Long Range Summary-Highway Division
FY2022-2026 CIP Submission Forms-Highway Division



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

**Vehicle Replacement
422-DPW-Highway Division**

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | (1) Road Ready Ford F-350 utility truck to replace H-22 and (1) Mack 10 wheeler w/dump body to replace 1990 International | | | | | |
|--|--|---|-------------------------|-----------------|--------------------------|-----------------------------|---------------|
| MEETING: | Fall Town Meeting | DATE: | 12/21/20 | ARTICLE: | 5 | APPROPRIATED AMOUNT: | \$ 280,285.00 |
| SPONSOR: | Capital Planning Committee | APPROVAL: | Yes-72, No-4 = 2/3 vote | | COMMITTED AMOUNT: | \$ 280,285.00 | |
| FUNDING SOURCE: | BAN | ACCOUNT: | 33-422-5853-3304PW21 | | REMAINING AMOUNT: | \$ - | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| Due to Covid, Town Meeting approval that was voted on 10/27/2020 could not be finalized until December 2020. This created a delay in the purchase order being created and the order being placed. Due to Covid, the manufacturer is delayed on delivery of product. Both vehicles require custom builds and take time. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| None | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| Estimated delivery date due to Covid: Utility Truck = 4/2021 Mack Truck = 7/2021 | | | | | | | |
| ITEM NO. | MILESTONE ACTION | PLANNED COMPLETION | ACTUAL COMPLETION | | | | |
| 1 | POs created and both order placed with vendor (both vendors) | 1/22/21 | 1/22/21 | | | | |
| 2 | Ballard Mack 6-wheel Truck contract execution | 2/1/21 | | | | | |
| 3 | Mack 6-wheel Truck build in late April/early May | 5/15/21 | | | | | |
| 4 | Mack 6-wheel Truck outfitting by 3rd party | 7/1/21 | | | | | |
| 5 | F350 Utility delivery (awaiting response from vendor) | ? | | | | | |
| 6 | Colonial Ford F350 Utility Body contract execution | 2/1/21 | | | | | |
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| SUBMITTED BY: | | Benn Sherman | | | DATE: | 2/9/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

Bridge & Culvert Study
422-DPW-Highway Division
CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | Fund a study to evaluate the condition of all town bridges and culverts including all cost incidental and related thereto | | | | | |
|--|--|---|----------------------|--------------------------|-------------------|-----------------------------|---------------|
| MEETING: | Special Town Meeting | DATE: | 6/19/21 | ARTICLE: | 2, Cap. Exclusion | APPROPRIATED AMOUNT: | \$ 110,000.00 |
| SPONSOR: | Board of Selectmen (Town Manager) | APPROVAL: | | COMMITTED AMOUNT: | | \$ | 109,658.98 |
| FUNDING SOURCE: | Capital Exclusion | ACCOUNT: | 12-422-5310-1205PW11 | REMAINING AMOUNT: | | \$ | 341.02 |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| Plan was completed in 2011. The DPW has used unexpended funds to reassess structures on an as needed basis. February 2021, the DPW contracted with the engineering consultant to reassess the entire list of structures. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| None. | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| Finally reassessing the structures. | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Executed contract for reassessment of structures | | | 6/30/21 | | | |
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| SUBMITTED BY: | Benn Sherman | | | DATE: | 3/3/21 | | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2019 MaDEP ACOP Soils Project

422-DPW-Highway Division

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | SURVEY, ENGINEERING & CONTRACTED SVCS NEEDED TO EVALUATE SOIL STOCK PILES IN RESPONSE TO MASSDEP ENFORCEMENT | | | | | |
|--|---|--|----------------------|--------------------------|-------------------|-----------------------------|---------------|
| MEETING: | Spring Annual Town Meeting | DATE: | 5/8/18 | ARTICLE: | 4, Table B | APPROPRIATED AMOUNT: | \$ 150,000.00 |
| SPONSOR: | Town Manager | APPROVAL: | | COMMITTED AMOUNT: | | \$ 150,000.00 | |
| FUNDING SOURCE: | Stabilization | ACCOUNT: | 12-421-5880-1230PW18 | REMAINING AMOUNT: | | \$ - | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| None. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| None. | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None. | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Completed FY2020 & 2021 Removal and disposal 03/02/2021 | | | 6/30/21 | 3/2/21 | | |
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| SUBMITTED BY: | | Benn Sherman | | DATE: | | 3/3/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2020 MaDEP ACOP Soils Project

422-DPW-Highway Division

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | SURVEY, ENGINEERING & CONTRACTED SVCS NEEDED TO EVALUATE SOIL STOCK PILES IN RESPONSE TO MASSDEP ENFORCEMENT | | | | | |
|--|---|--|----------------------|--------------------------|-------------------|-----------------------------|--------------|
| MEETING: | Spring Annual Town Meeting | DATE: | 5/14, 06/18/20 | ARTICLE: | 5, Table 2 A1 | APPROPRIATED AMOUNT: | \$ 47,716.00 |
| SPONSOR: | Town Manager | APPROVAL: | | COMMITTED AMOUNT: | \$ | 47,716.00 | |
| FUNDING SOURCE: | Stabilization | ACCOUNT: | 12-421-5880-1246PW20 | REMAINING AMOUNT: | \$ | - | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| None. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| None. | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None. | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Completed FY2020 & 2021 Removal and disposal 03/02/2021 | | | 6/30/21 | 3/2/21 | | |
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| SUBMITTED BY: | | Benn Sherman | | | DATE: | 3/3/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2020 Care and Conditioning of Roads

422-DPW-Highway Division

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | FY2020 Care and Conditioning of Roads | | | | | |
|--|---|---------------------------------------|----------------------|--------------------------|-------------------|-----------------------------|---------------|
| MEETING: | Spring Annual Town Meeting | DATE: | 5/14, 06/18/20 | ARTICLE: | 14 | APPROPRIATED AMOUNT: | \$ 400,000.00 |
| SPONSOR: | DPW Director | APPROVAL: | | COMMITTED AMOUNT: | \$ | 400,000.00 | |
| FUNDING SOURCE: | Raise and Appropriate | ACCOUNT: | 12-422-5855-1248PW20 | REMAINING AMOUNT: | \$ | - | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| None | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| None | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Completed East Hartford Avenue Construction | | | 6/30/21 | 12/31/20 | | |
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| SUBMITTED BY: | | Benn Sherman | | DATE: | | 3/2/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

FY2021 Care and Conditioning of Roads

422-DPW-Highway Division

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | FY2021 Care and Conditioning of Roads | | | | | |
|--|--|---------------------------------------|----------------------|--------------------------|-------------------|-----------------------------|---------------|
| MEETING: | Spring Annual Town Meeting | DATE: | 6/17/20 | ARTICLE: | 14 | APPROPRIATED AMOUNT: | \$ 440,000.00 |
| SPONSOR: | DPW Director | APPROVAL: | | COMMITTED AMOUNT: | \$ | 65,457.57 | |
| FUNDING SOURCE: | Raise and Appropriate | ACCOUNT: | 12-422-5855-1248PW21 | REMAINING AMOUNT: | \$ | 374,542.43 | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| None | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| None | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Completed East Hartford Avenue Construction | | | 12/31/20 | 12/31/20 | | |
| 2 | Proposed FY2021 Work: Hartford Ave West Construction & portion of Granite Street | | | 6/30/21 | | | |
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| SUBMITTED BY: | | Benn Sherman | | DATE: | | 3/2/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

2016 NPDES Permit Compliance

422-DPW-Highway Division

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | USEPA NPDES MS4 Permit Compliance | | | | | |
|---|---|-----------------------------------|----------------------|--------------------------|-------------------|-----------------------------|--------------|
| MEETING: | Fall Town Meeting | DATE: | 10/25/16 | ARTICLE: | 7 | APPROPRIATED AMOUNT: | \$ 50,000.00 |
| SPONSOR: | DPW Director | APPROVAL: | | COMMITTED AMOUNT: | | \$ 37,225.89 | |
| FUNDING SOURCE: | Stabilization | ACCOUNT: | 12-422-5880-1214PW17 | REMAINING AMOUNT: | | \$ 12,774.11 | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| USEPA permitting requirements. Working with the Central Massachusetts Stormwater Coalition to develop action plans to meet the permit requirements. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| USEPA permitting time frames | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None. Working with our consultant to perform FY2021 required services. | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Completed Updates to stormwater GIS mapping | | | 12/31/17 | 10/27/17 | | |
| 2 | Ongoing MS4 permit support services | | | Ongoing | 6/30/21 | | |
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| SUBMITTED BY: | | Benn Sherman | | | DATE: | 3/2/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

2018 NPDES Permit Compliance

422-DPW-Highway Division

CONTACT: Benn Sherman

| DESCRIPTION/PURPOSE: | | USEPA NPDES MS4 Permit Compliance | | | | | |
|---|---|-----------------------------------|----------------------|--------------------------|-------------------|-----------------------------|--------------|
| MEETING: | Fall Town Meeting | DATE: | 10/25/16 | ARTICLE: | 7 | APPROPRIATED AMOUNT: | \$ 50,000.00 |
| SPONSOR: | DPW Director | APPROVAL: | | COMMITTED AMOUNT: | | \$ | 1,158.61 |
| FUNDING SOURCE: | Stabilization | ACCOUNT: | 12-422-5880-1214PW17 | REMAINING AMOUNT: | | \$ | 48,841.39 |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| USEPA permitting requirements. Working with the Central Massachusetts Stormwater Coalition to develop action plans to meet the permit requirements. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| USEPA permitting time frames | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None. Working with our consultant to perform FY2021 required services. | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Completed Updates to stormwater GIS mapping | | | 12/31/17 | 10/27/17 | | |
| 2 | Ongoing MS4 permit support services | | | Ongoing | 6/30/21 | | |
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| SUBMITTED BY: | | Benn Sherman | | | DATE: | 3/2/21 | |



SPECIAL ARTICLE/CAPITAL PROJECT SUMMARY

Senior Center Parking Lot Construction

422-DPW-Highway Division

CONTACT: Benn Sherman

| | | | | | | | |
|--|-------------------------------------|---|----------------------|---------------------------|--------------------------|-----------------------------|--------------|
| DESCRIPTION/PURPOSE: | | Additional fundiing for the construction of the Senior Center Parking lot at 32 south Main Street | | | | | |
| MEETING: | Spring Annual Town Meeting | DATE: | 5/14/19 | ARTICLE: | 5, Table 1 | APPROPRIATED AMOUNT: | \$ 75,000.00 |
| SPONSOR: | Town Manager | APPROVAL: | | COMMITTED AMOUNT: | | | |
| FUNDING SOURCE: | Stabilization | ACCOUNT: | 12-541-5855-1243PW20 | REMAINING AMOUNT: | | \$ 75,000.00 | |
| DESCRIBE ANY ISSUES AND THEIR RESOLUTION: | | | | | | | |
| We were not authorized to complete the project based on the base bid and add alternate 1. We restructured some of the work and change ordered this into the project. | | | | | | | |
| CHANGES TO THE PROJECT: | | | | | | | |
| Modifications to the scope to fit the project funding. | | | | | | | |
| REASONS FOR CHANGES TO FINISHED DATE: | | | | | | | |
| None. | | | | | | | |
| ITEM NO. | MILESTONE ACTION | | | PLANNED COMPLETION | ACTUAL COMPLETION | | |
| 1 | Notice of Award | | | | 6/4/20 | | |
| 2 | Construction substantially complete | | | 11/1/20 | 11/1/20 | | |
| 3 | Punch list completion | | | 5/1/21 | | | |
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| SUBMITTED BY: | Benn Sherman | | | DATE: | 3/2/21 | | |



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS

147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 ♦ Fax 508-278-3179

| DEPARTMENT OF PUBLIC WORKS CAPITAL PLAN | | | | | | |
|--|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| LIST OF CAPITAL PROJECTS/PURCHASES BY DIVISION | | | | | | |
| DEPARTMENT/ DIVISION | PROJECT/PROGRAM | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| HIGHWAY | DPW FACILITY MATERIALS HANDLING | 160,000 | 160,000 | 170,000 | 160,000 | 170,200 |
| HIGHWAY | PAVEMENT MANAGEMENT PROGRAM | 950,000 | 950,000 | 950,000 | 950,000 | 950,000 |
| HIGHWAY | TRACKLESS MACHINE BOOM FLAIL ATTACHMENT | 39,000 | | | | |
| HIGHWAY | HIGH & PARK STREETS DRAINAGE STUDY | 14,600 | | | | |
| HIGHWAY | LINWOOD AREA DRAINAGE STUDY | 15,400 | | | | |
| HIGHWAY | ALBEE ROAD CULVERT REPLACEMENT CONSTRUCTION | 150,000 | | | | |
| HIGHWAY | SUTTON ST. CULVERT DESIGN & CONSTRUCTION | 165,475 | 1,200,000 | | | |
| HIGHWAY | BRIDGE & CULVERT REPLACEMENT PROGRAM | 73,000 | 337,000 | 315,000 | 351,000 | 526,000 |
| HIGHWAY | FLEET REPLACEMENT PROGRAM | 200,000 | 200,000 | 120,000 | 290,000 | 200,000 |
| HIGHWAY | EMERGENCY GENERATOR (ENG. & IMPLEMENTATION) | | 20,000 | 200,000 | | |
| HIGHWAY | SALT SHED | | | | 75,000 | 500,000 |
| HIGHWAY | AIR HANDLING SYSTEM | | | | 65,000 | |
| HIGHWAY | GARAGE ADDITION ENGINEERING/CONSTRUCTION | | | | | 1,100,000 |
| | <i>SUBTOTAL</i> | <i>1,767,475</i> | <i>2,867,000</i> | <i>1,755,000</i> | <i>1,891,000</i> | <i>3,446,200</i> |
| TOTAL - PUBLIC WORKS HIGHWAY DIVISION (10-YEAR) | | | | | | |



TOWN OF UXBRIDGE
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147 HECLA STREET
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| DEPARTMENT OF PUBLIC WORKS CAPITAL PLAN | | | | | | | |
|--|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| LIST OF CAPITAL PROJECTS/PURCHASES BY DIVISION | | | | | | | |
| DEPARTMENT/ DIVISION | PROJECT/PROGRAM | FY2027 | FY2028 | FY2029 | FY2030 | FY2030 | TOTALS |
| HIGHWAY | DPW FACILITY MATERIALS HANDLING | | | | | | 820,200 |
| HIGHWAY | PAVEMENT MANAGEMENT PROGRAM | 950,000 | 950,000 | 950,000 | 950,000 | 950,000 | 9,500,000 |
| HIGHWAY | TRACKLESS MACHINE BOOM FLAIL ATTACHMENT | | | | | | 39,000 |
| HIGHWAY | HIGH & PARK STREETS DRAINAGE STUDY | | | | | | 14,600 |
| HIGHWAY | LINWOOD AREA DRAINAGE STUDY | | | | | | 15,400 |
| HIGHWAY | ALBEE ROAD CULVERT REPLACEMENT CONSTRUCTION | | | | | | 150,000 |
| HIGHWAY | SUTTON ST. CULVERT DESIGN & CONSTRUCTION | | | | | | 1,365,475 |
| HIGHWAY | BRIDGE & CULVERT REPLACEMENT PROGRAM | 350,000 | 350,000 | 350,000 | 350,000 | 350,000 | 3,352,000 |
| HIGHWAY | FLEET REPLACEMENT PROGRAM | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 1,760,000 |
| HIGHWAY | EMERGENCY GENERATOR (ENG. & IMPLEMENTATION) | | | | | | 220,000 |
| HIGHWAY | SALT SHED | | | | | | 575,000 |
| HIGHWAY | AIR HANDLING SYSTEM | | | | | | 65,000 |
| HIGHWAY | GARAGE ADDITION ENGINEERING/CONSTRUCTION | 1,000,000 | | | | | 2,100,000 |
| | <i>SUBTOTAL</i> | <i>2,450,000</i> | <i>1,450,000</i> | <i>1,450,000</i> | <i>1,450,000</i> | <i>1,450,000</i> | |
| TOTAL - PUBLIC WORKS HIGHWAY DIVISION (10-YEAR) | | | | | | | 19,976,675 |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/7/2019 Date of Last Edit: 2/26/2021

Project Title: DPW Facility Materials Handling
 Category: Parks/Grounds
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
- Maintain Service
- Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Operating budget can not sustain the requirements of the 2019 MassDEP Administrative Consent Order with Penalty (ACOP). Failure to comply with the ACOP will result in future penalties/fines being assessed until compliance is achieved.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|------------------|--|------------------|------------------|------------------|------------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$114,800 | \$21,000 | \$21,000 | \$30,800 | \$21,000 | \$21,000 |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$705,400 | \$139,000 | \$139,000 | \$139,200 | \$139,000 | \$149,200 |
| TOTAL | \$820,200 | \$160,000 | \$160,000 | \$170,000 | \$160,000 | \$170,200 |

Funding Source(s) Check all that apply

- Tax Levy
- Debt
- Enterprise Receipts
- Stabilization
- Free Cash
- Revolving Fund
- CPA
- Grant(s) or Other

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
- Recreation
- Historical
- Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: DPW Facility Materials Handling
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 1/7/19
Department: Public Works-Highway Division

Existing Conditions

The DPW has been working with MassDEP for the past few years to review and analyze the legacy materials stored behind the salt shed. These materials is stockpiled within jurisdictional resource areas. This stockpiled material spans over 20 years and includes historical catch basin cleanings, street sweepings and asphalt, brick and concrete (ABC) materials, miscellaneous brush/leaf litter, and miscellaneous construction materials.

Project Description

Continue with action plan submitted to MassDEP to ensure compliance with ACOP.

Justification/Benefits

Required to maintain compliance with the Wetlands Protection Act and Administrative Consent Order with Penalty (ACOP). The DPW will be submitting a Notice of Intent (NOI) to obtain an Order of Conditions (OOC) to operate the DPW facility in the current location.

Operating Budget Discussion

Operating budget can not sustain the work required to review, test, process and properly dispose of the material in accordance with applicable regulations.

Estimate Basis

Estimates through engineering consultant and state contract. Costs include engineering support and survey services to accurately estimate volumes of material for disposal and processing. Costs are based on actual scope and time frames stipulated in the ACOP. The existing piles are considered "comingled". As such estimates were based on worst case scenarios.

Time/Project Schedule

MassDEP issued the ACOP on April 2019. The project schedule is based on the negotiated phasing schedule approved by the Uxbridge Conservation Commission and MassDEP. Ongoing activities and compliance are required to be completed by December 2025.

Alternatives

None due to non compliance issues and MassDEP regulations.

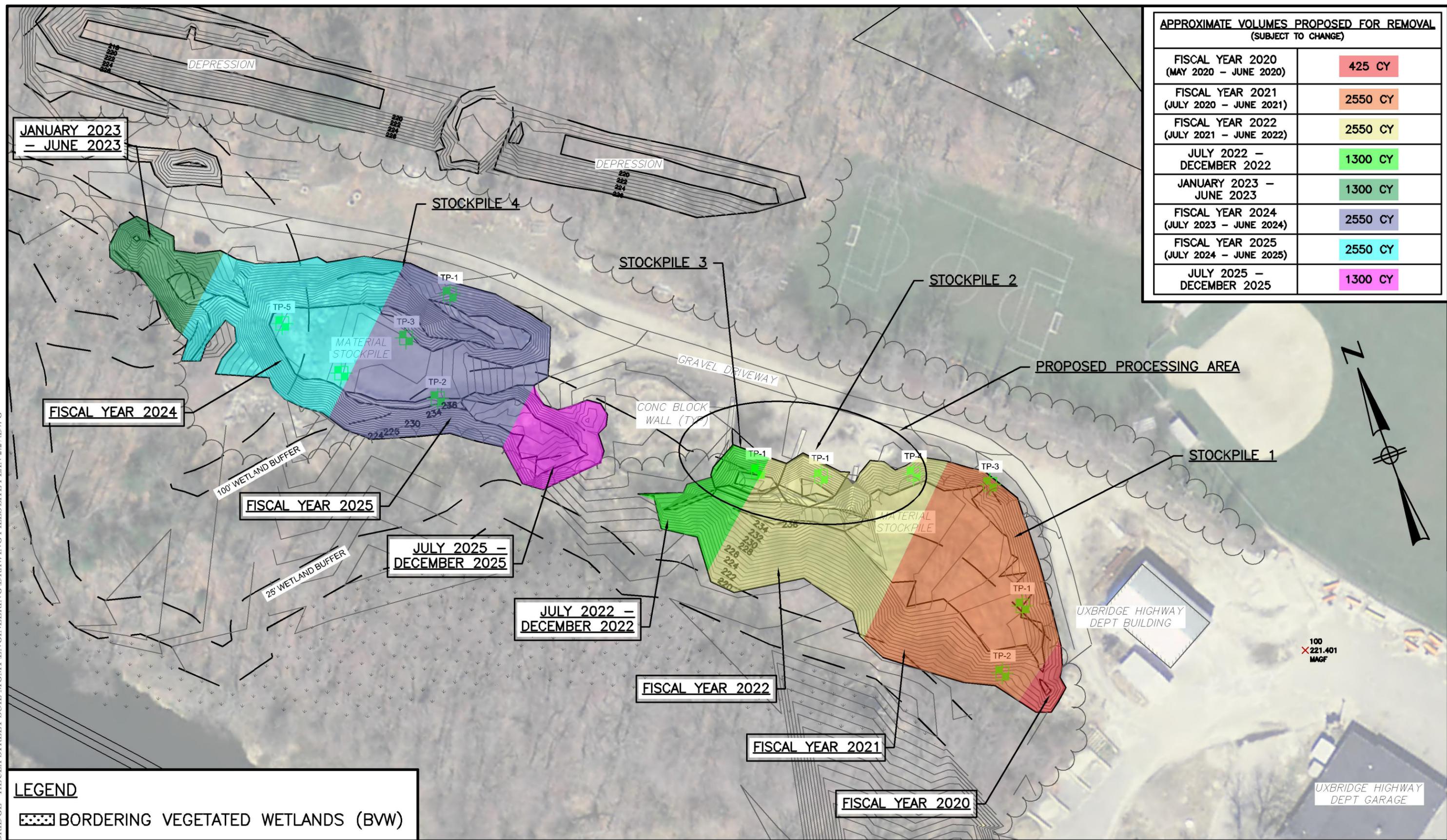
Key Assumptions

Issuance of ACO. Funding based on worst case disposal option.

Other

There is a compliance schedule for removal and reporting to MassDEP.

| APPROXIMATE VOLUMES PROPOSED FOR REMOVAL (SUBJECT TO CHANGE) | |
|---|---------|
| FISCAL YEAR 2020 (MAY 2020 - JUNE 2020) | 425 CY |
| FISCAL YEAR 2021 (JULY 2020 - JUNE 2021) | 2550 CY |
| FISCAL YEAR 2022 (JULY 2021 - JUNE 2022) | 2550 CY |
| JULY 2022 - DECEMBER 2022 | 1300 CY |
| JANUARY 2023 - JUNE 2023 | 1300 CY |
| FISCAL YEAR 2024 (JULY 2023 - JUNE 2024) | 2550 CY |
| FISCAL YEAR 2025 (JULY 2024 - JUNE 2025) | 2550 CY |
| JULY 2025 - DECEMBER 2025 | 1300 CY |



LEGEND
 BORDERING VEGETATED WETLANDS (BVW)

Uxbridge DPW
 147 Hecla Street, Uxbridge, MA
 Parcel 25-2378
 Plot Date: 3/30/2020

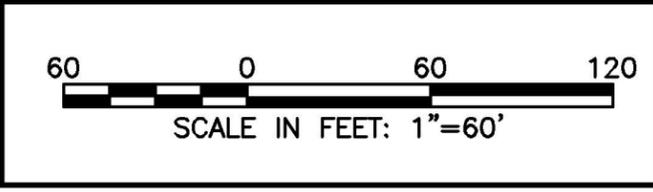
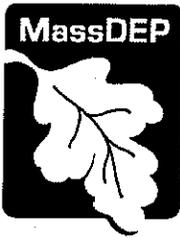


Figure No. 1
Phasing Work Plan

O:\58005\5826 - UXBRIDGE - HECLA STREET SOIL MGMT\ENGINEERING\DRAWING FILES\SITE PLAN 2.27.DWG



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 8 New Bond Street, Worcester MA 01606 • 508-792-7650

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

Angeline Ellison, Town Manager
Town of Uxbridge
21 South Main Street
Uxbridge, MA 01569

Re: Wetlands-Uxbridge
Uxbridge DPW
145-147 Hecla Street

ADMINISTRATIVE CONSENT ORDER WITH
PENALTY AND NOTICE OF NONCOMPLIANCE
with M.G.L. c.131 § 40 Massachusetts Wetlands
Protection Act And 310 CMR 10.00
Enforcement Document #: 00006636

Dear Ms Ellison:

Enclosed please find an executed copy of the Administrative Consent Order with Penalty (the "ACOP") that reflects the settlement agreement between the Massachusetts Department of Environmental Protection ("MassDEP") and the Town of Uxbridge as a result of our negotiations.

Please review the deadlines and requirements of Section III, Paragraph 7 of the ACOP. Failing to comply with those deadlines and requirements may result in the assessment of additional penalties pursuant to Section III, Paragraph 18 of the ACOP.

MassDEP appreciates your cooperation in negotiating this agreement. Should you have any questions concerning the ACOP, please contact me at (508) 767-2846, as soon as possible.

Very truly yours,

Denise Child
Wetlands Section Chief
Bureau of Water Resources

Date _____

Enclosure: ACOP Enforcement #00006636

cc: Uxbridge Conservation Commission by email at hjones@uxbridge-ma.gov
Rebecca Tobin, Senior Regional Counsel, MassDEP OGC CERO

This Information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.
TTY# MassRelay Service 1-800-439-2370
MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

**COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY AND ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

In the matter of:
Town of Uxbridge

Enforcement Document Number:
00006636
Issuing Bureau: BWR
Issuing Region/Office: CERO
Issuing Program: WET
Primary Program Cited: WET
Subprogram Cited: SWM
Suffix: NT

**ADMINISTRATIVE CONSENT ORDER WITH PENALTY
AND
NOTICE OF NONCOMPLIANCE**

I. THE PARTIES

1. The Massachusetts Department of Environmental Protection ("Department" or "MassDEP") is a duly constituted agency of the Commonwealth of Massachusetts established pursuant to M.G.L. c. 21A, § 7. MassDEP maintains its principal office at One Winter Street, Boston, Massachusetts 02108, and its Central Regional Office at 8 New Bond Street, Worcester, Massachusetts 01606.
2. The Town of Uxbridge ("Respondent") is a municipality with its principle offices located at 21 South Main Street, Uxbridge, Massachusetts 01569. Respondent owns the real property at 145-147 Hecla Street in Uxbridge, Massachusetts 01569 (the "Site") pursuant to a deed recorded in the Worcester Registry of deeds in book 2815 at page 58. Respondent's mailing address for purposes of this Order is 21 South Main Street, Uxbridge, Massachusetts 01569.

II. STATEMENT OF FACTS AND LAW

3. MassDEP is responsible for the implementation and enforcement of M.G.L. c. 131, § 40 and the Wetlands Regulations at 310 CMR 10.00; M.G.L. c. 111, §§ 150A and 150A1/2, the Solid Waste Management Regulations at 310 CMR 19.000, and the Site Assignment Regulations for Solid Waste Facilities at 310 CMR 16.00. MassDEP has authority under M.G.L. c. 21A, § 16 and the Administrative Penalty Regulations at 310 CMR 5.00 to assess civil administrative penalties to persons in noncompliance with the laws and regulations set forth above.
4. The following facts and allegations have led MassDEP to issue this Consent Order:

- A. On September 3, 2017, MassDEP received a complaint regarding potential violations of the Wetlands Protection Act at the Site.
- B. On September 11, 2017, MassDEP staff inspected the Site with representatives of the Town of Uxbridge and observed more than 10,000 cubic yards of fill material stockpiled within Bordering Land Subject to Flooding ("BLSF") adjacent to the Blackstone River. MassDEP staff observed that the fill material consisted of sand/street sweepings, roadway construction debris, wood chips, brush, yard waste, and other materials, including tires, stumps, pipes, and granite blocks.
- C. On September 29, 2017, MassDEP conducted a fact finding meeting with Respondent at the Central Regional Office. MassDEP requested Respondent to conduct a land survey and analysis of materials at the Site to characterize the nature and volume of material deposited within BLSF.
- D. On April 11, 2018, the Town of Uxbridge submitted to MassDEP a memorandum entitled "Soil Stockpile Management" prepared by BETA Engineering, assessing the stockpiled material and proposing its management and disposition (the "BETA Report"). The BETA Report concluded that approximately 14,000 cubic yards of material consisting of sand, compost and asphalt, brick and concrete waste ("ABC waste") are currently stored in the BLSF at the Site. The material is described in four stockpiles: "Stockpile 1" is composed of approximately 6,000 cubic yards of predominantly sand from catch basin cleaning and street sweepings. "Stockpile 2" consists of approximately 300 cubic yards of similar material. "Stockpile 3" consists of approximately 300 cubic yards of compost, predominantly leaves and twigs. "Stockpile 4" consists of approximately 7,400 cubic yard of ABC waste with some sand that is likely from catch basin cleaning and street sweeping. The BETA Report includes a long-term proposal for the segregation, management, and disposal of the material. The BETA Report also includes a proposal for providing some compensatory flood storage in the shorter term.
- E. By stockpiling material in the BLSF at the Site without first filing a Notice of Intent and obtaining an Order of Conditions permitting the work, Respondent altered and/or allowed to be altered areas subject to the Wetlands Protection Act without a permit, in violation of 310 CMR 10.02(2)(a). Additionally, by stockpiling material in the BLSF at the Site, Respondent left in place unauthorized fill, in violation of M.G.L. c. 131 § 40.
- F. By stockpiling material in the Bordering Land Subject to Flooding at the Site, Respondent altered and/or allowed to be altered Bordering Land Subject to Flooding, in violation of the performance standards at 310 CMR 10.57(4).
- G. By stockpiling solid waste materials such as the street sweepings and road construction debris observed by MassDEP on September 11, 2017, Respondent

has violated 310 CMR 19.014(1) which provides that "No person shall establish construct, operate, or maintain a dumping ground or operate or maintain a landfill in Massachusetts in such a manner as to constitute and open dump."

III. DISPOSITION AND ORDER

For the reasons set forth above, MassDEP hereby issues, and Respondent hereby consents to, this Order:

6. The parties have agreed to enter into this Consent Order because they agree that it is in their own interests, and in the public interest, to proceed promptly with the actions called for herein rather than to expend additional time and resources litigating the matters set forth above. Respondent enters into this Consent Order without admitting or denying the facts or allegations set forth herein. However, Respondent agrees not to contest such facts and allegations for purposes of the issuance or enforcement of this Consent Order.
7. MassDEP's authority to issue this Consent Order is conferred by the statutes and regulations cited in Part II of this Consent Order.
8. Respondent shall perform the following actions:
 - A. Effective immediately, cease and desist from the placement of fill, stockpiled material, and solid waste in the Bordering Land Subject to Flooding at the Site.
 - B. Within ninety days (90) of the effective date of this Consent Order, submit an application for a Beneficial Use Determination (BUD) for the segregation, management, and reuse and/or disposal of the ABC Waste, Compost, Commingled Street Sweepings, and Catch Basin Cleanings.
 - C. Until such time as all the ABC Waste, Compost, Commingled Street Sweepings, and Catch Basin Cleanings have been properly removed from the site and either reused in accordance with a MassDEP approved BUD permit, as required in paragraph 10.B above or properly disposed, respondent shall submit quarterly progress reports, prepared and stamped by a Registered Professional Engineer, with supporting documentation detailing its diligent efforts to remove and properly dispose of the unauthorized fill to MassDEP's Solid Waste Section Chief in the Central Regional Office. The quarterly reports shall identify the types and quantities of materials reused or removed from the site; disposition of the material identifying the name and location of the receiving facility along with copies of weight slips from the receiving facility. The respondent shall submit revised annual site survey plans to MassDEP by February 15th of each year.
 - D. At all times during the removal of the unauthorized fill, conduct work in a manner that avoids further alteration of wetland resource area, including proper use of appropriate and sufficient erosion and sedimentation controls and best

management practices as directed and/or overseen by an erosion control specialist.

- E. On or before December 31, 2025, submit to MassDEP a final report and survey, prepared and stamped by a Registered Professional Engineer, that documents the removal of all solid waste and unauthorized fill from the wetland resource areas at the Site.
9. Except as otherwise provided, all notices, submittals and other communications required by this Consent Order shall be directed to:

John Kronopolus, Acting Deputy Regional Director
Bureau of Air and Waste
MassDEP
8 New Bond Street
Worcester, MA 01606

Such notices, submittals and other communications shall be considered delivered by Respondent upon receipt by MassDEP.

10. Actions required by this Consent Order shall be taken in accordance with all applicable federal, state, and local laws, regulations and approvals. This Consent Order shall not be construed as, nor operate as, relieving Respondent or any other person of the necessity of complying with all applicable federal, state, and local laws, regulations and approvals.

11. For purposes of M.G.L. c. 21A, § 16 and 310 CMR 5.00, this Consent Order shall also serve as a Notice of Noncompliance for Respondent's noncompliance with the requirements cited in Part II above. MassDEP hereby determines, and Respondent hereby agrees, that any deadlines set forth in this Consent Order constitute reasonable periods of time for Respondent to take the actions described.

12. Force Majeure - General

- A. MassDEP agrees to extend the time for performance of any requirement of this Consent Order if MassDEP determines that such failure to perform is caused by a Force Majeure event. The failure to perform a requirement of this Consent Order shall be considered to have been caused by a Force Majeure event if the following criteria are met: (1) an event delays performance of a requirement of this Consent Order beyond the deadline established herein; (2) such event is beyond the control and without the fault of Respondent and Respondent's employees, agents, consultants, and contractors; and (3) such delay could not have been prevented, avoided or minimized by the exercise of due care by Respondent or Respondent's employees, agents, consultants, and contractors.

- B. Financial inability and unanticipated or increased costs and expenses associated with the performance of any requirement of this Consent Order shall not be considered a Force Majeure Event.
- C. If any event occurs that delays or may delay the performance of any requirement of this Consent Order, Respondent shall immediately, but in no event later than 5 days after obtaining knowledge of such event, notify MassDEP in writing of such event. The notice shall describe in detail: (i) the reason for and the anticipated length of the delay or potential delay; (ii) the measures taken and to be taken to prevent, avoid, or minimize the delay or potential delay; and (iii) the timetable for taking such measures. If Respondent intends to attribute such delay or potential delay to a Force Majeure event, such notice shall also include the rationale for attributing such delay or potential delay to a Force Majeure event and shall include all available documentation supporting a claim of Force Majeure for the event. Failure to comply with the notice requirements set forth herein shall constitute a waiver of Respondent's right to request an extension based on the event.
- D. If MassDEP determines that Respondent's failure to perform a requirement of this Consent Order is caused by a Force Majeure event, and Respondent otherwise complies with the notice provisions set forth in paragraph C above, MassDEP agrees to extend in writing the time for performance of such requirement. The duration of this extension shall be equal to the period of time the failure to perform is caused by the Force Majeure event. No extension shall be provided for any period of time that Respondent's failure to perform could have been prevented, avoided or minimized by the exercise of due care. No penalties shall become due for Respondent's failure to perform a requirement of this Consent Order during the extension of the time for performance resulting from a Force Majeure event.
- E. A delay in the performance of a requirement of this Consent Order caused by a Force Majeure event shall not, of itself, extend the time for performance of any other requirement of this Consent Order.

13. The Commonwealth assesses a civil administrative penalty in the amount of fifteen thousand, six hundred forty-two dollars (\$15,642.00) for the violations identified in Part II above, as follows:

- A. Within thirty (30) days of the effective date of this Consent Order, Respondent shall pay to the Commonwealth one thousand dollars (\$1,000.00); and
- B. MassDEP hereby agrees to suspend payment of the sum of fourteen thousand, six hundred forty-two dollars (\$14,642.00); provided, however, that if Respondent violates any provision of this Consent Order, or further violates any of the regulations cited in Part II above within one year of the effective date of this Consent Order, Respondent shall pay to the Commonwealth the remaining amount of fourteen thousand, six hundred forty-two dollars (\$14,642.00) within

thirty (30) days of the date MassDEP issues Respondent a written demand for payment. This paragraph shall not be construed or operate to bar, diminish, adjudicate, or in any way affect, any legal or equitable right of MassDEP to assess Respondent additional civil administrative penalties, or to seek any other relief, with respect to any future violation of any provision of this Consent Order or any law or regulation.

14. Respondent understands, and hereby waives, its right to an adjudicatory hearing before MassDEP on, and judicial review of, the issuance and terms of this Consent Order and to notice of any such rights of review. This waiver does not extend to any other order issued by the MassDEP.

15. This Consent Order may be modified only by written agreement of the parties hereto.

16. The provisions of this Consent Order are severable, and if any provision of this Consent Order or the application thereof is held invalid, such invalidity shall not affect the validity of other provisions of this Consent Order, or the application of such other provisions, which can be given effect without the invalid provision or application, provided however, that MassDEP shall have the discretion to void this Consent Order in the event of any such invalidity.

17. Nothing in this Consent Order shall be construed or operate as barring, diminishing, adjudicating or in any way affecting (i) any legal or equitable right of MassDEP to issue any additional order or to seek any other relief with respect to the subject matter covered by this Consent Order, or (ii) any legal or equitable right of MassDEP to pursue any other claim, action, suit, cause of action, or demand which MassDEP may have with respect to the subject matter covered by this Consent Order, including, without limitation, any action to enforce this Consent Order in an administrative or judicial proceeding.

18. This Consent Order shall not be construed or operate as barring, diminishing, adjudicating, or in any way affecting, any legal or equitable right of MassDEP or Respondent with respect to any subject matter not covered by this Consent Order.

19. This Consent Order shall be binding upon Respondent and upon Respondent's heirs, successors and assigns. Respondent shall not violate this Consent Order and shall not allow or suffer Respondent's employees, agents, contractors or consultants to violate this Consent Order. Until Respondent has fully complied with this Consent Order, Respondent shall provide a copy of this Consent Order to each successor or assignee at such time that any succession or assignment occurs.

20. In addition to the penalty set forth in this Consent Order, if any (including any suspended penalty), if Respondent violates any provision of the Consent Order, Respondent shall pay stipulated civil administrative penalties to the Commonwealth in the amount of \$1,000 per day for each day, or portion thereof, each such violation continues.

Stipulated civil administrative penalties shall begin to accrue on the day a violation occurs and shall continue to accrue until the day Respondent corrects the violation or completes performance, whichever is applicable. Stipulated civil administrative penalties shall accrue regardless of whether MassDEP has notified Respondent of a violation or act of noncompliance. All stipulated civil administrative penalties accruing under this Consent Order shall be paid within thirty (30) days of the date MassDEP issues Respondent a written demand for payment. If simultaneous violations occur, separate penalties shall accrue for separate violations of this Consent Order. The payment of stipulated civil administrative penalties shall not alter in any way Respondent's obligation to complete performance as required by this Consent Order. MassDEP reserves its right to elect to pursue alternative remedies and alternative civil and criminal penalties which may be available by reason of Respondent's failure to comply with the requirements of this Consent Order. In the event MassDEP collects alternative civil administrative penalties, Respondent shall not be required to pay stipulated civil administrative penalties pursuant to this Consent Order for the same violations.

Respondent reserves whatever rights it may have to contest MassDEP's determination that Respondent failed to comply with the Consent Order and/or to contest the accuracy of MassDEP's calculation of the amount of the stipulated civil administrative penalty. Upon exhaustion of such rights, if any, Respondent agrees to assent to the entry of a court judgment if such court judgment is necessary to execute a claim for stipulated penalties under this Consent Order.

21. Respondent shall pay all civil administrative penalties due under this Consent Order, including suspended and stipulated penalties, by certified check, cashier's check, or money order made payable to the Commonwealth of Massachusetts, or by electronic funds transfer. If payment is made by certified check, cashier's check, or money order, Respondent shall clearly print on the face of its payment Respondent's full name, the enforcement document number appearing on the first page of this Consent Order, and the Respondent's Federal Employer Identification Number, and shall mail it to:

Commonwealth of Massachusetts
Department of Environmental Protection
Commonwealth Master Lockbox
P.O. Box 3982
Boston, Massachusetts 02241-3982

22. Failure on the part of MassDEP to complain of any action or inaction on the part of Respondent shall not constitute a waiver by MassDEP of any of its rights under this Consent Order. Further, no waiver by MassDEP of any provision of this Consent Order shall be construed as a waiver of any other provision of this Consent Order.

23. Respondent agrees to provide MassDEP, and MassDEP's employees, representatives and contractors, access at all reasonable times to the Site for purposes of conducting any activity related to its oversight of this Consent Order. Notwithstanding any provision of this Consent Order, MassDEP retains all of its access authorities and rights under applicable state and federal law.

24. The undersigned certify that they are fully authorized to enter into the terms and conditions of this Consent Order and to legally bind the party on whose behalf they are signing this Consent Order.
25. This Consent Order shall become effective on the date that it is executed by MassDEP.

[NO FURTHER TEXT APPEARS ON THIS PAGE]

26. IMPORTANT INSTRUCTIONS

For Payment to Lockbox and for Return to MassDEP of the signed Consent Orders (two (2) copies)

- 1) Send the two (2) signed copies of the Consent Orders (NOT the Payment) to the address below. MassDEP will return to you a signed duplicate original for your records.)

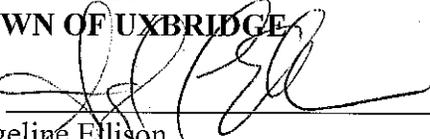
John Kronopolus, Acting Deputy Regional Director
Bureau of Air and Waste
MassDEP
8 New Bond Street
Worcester, MA 01606

- 2) DO NOT INCLUDE ANY PAYMENT with the two (2) signed copies of this Consent Order.
- 3) DO NOT SEND THE SIGNED CONSENT ORDERS to the COMMONWEALTH LOCKBOX that is referenced in paragraph 19 of the Consent Order

The Commonwealth Lockbox is ONLY for payments, as referenced above.
MassDEP cannot receive any documents sent to the Lockbox.

Consented To:

TOWN OF UXBRIDGE

By: 

Angeline Ellison

Uxbridge Town Manager

21 South Main St.

Uxbridge, MA 01569

Federal Employer Identification No.: 04-6001331

Date: 4-9-2019

Issued By:

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

By: 

Mary Jude Pigsley

Regional Director

8 New Bond Street

Worcester, MA 01606

Date: 4/26/19

Subject: RE: Soils Project

Date: Thursday, February 25, 2021 at 12:07:18 PM Eastern Standard Time

From: Craig Ellis

To: Benn Sherman

I broke down costing based upon the following periods:

Yr1 7/1/21 – 6/30/22
Yr2 7/1/22 – 6/30/23
Yr3 7/1/23 – 6/30/24
Yr4 7/1/24 – 6/30/25
Yr5 6/30/25 – 11/1/25

Yearly estimates

| | |
|---------------------------------|---|
| Annual Survey by PLS | \$3,900 (Surveyor agreed to carry this cost for life of project) |
| Annual lab costs | \$8,500 |
| Quarterly reports | \$3,600 |
| Meetings, sampling/Tech Assist. | <u>\$5,000</u> (this will vary and includes parking lot sampling as needed) |
| Yearly subtotal | \$21,000 |

Without parking lot area lab costs, would carry \$21,000 per year over 5 years plus \$9,800 for facility operation NOI.

So say:

Yr1 \$21,000+\$9,800 = \$30,800
Yr2 \$21,000
Yr3 \$21,000
Yr4 \$21,000
Yr5 \$21,000

If you want this to include parking lot lab costs, I would add another \$1,500 to annual cost.

Craig Ellis, LSP

Senior Project Manager

BETA Group, Inc. | 781.255.1982

[Twitter](#) | [LinkedIn](#) | [Facebook](#) | [Instagram](#)

Join our team!

From: Benn Sherman <bsherman@uxbridge-ma.gov>

Sent: Thursday, February 25, 2021 10:37 AM

To: Craig Ellis <CELLIS@BETA-Inc.com>

Subject: Re: Soils Project

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize

the sender and know the content is safe. Hover over any links before clicking them and forward questionable emails to IT if you are unsure. Forward spam to spam@appriver.com

Craig-

Have you had a chance to put together the numbers for the ongoing support? I am working on the capital request today and would like to update our numbers. Let me know.

Benn...

Benn S. Sherman, PE
Director of Public Works

Town of Uxbridge | 147 Hecla Street | Uxbridge, MA 01569
508.278.8616 | fax: 508.278.3179

[Uxbridge DPW Webpage](#) | [Facebook](#)

Kindly remember that the Secretary of State has deemed email a public record.



Please consider the environment before printing this email.

From: Benn Sherman <bsherman@uxbridge-ma.gov>

Date: Thursday, February 18, 2021 at 5:51 PM

To: Craig Ellis <CELLIS@beta-inc.com>

Subject: Re: Soils Project

Yes that would be great.

Benn S. Sherman, P.E.
Director of Public Works
Town of Uxbridge

Sent from my iPhone

On Feb 18, 2021, at 4:06 PM, Craig Ellis <CELLIS@beta-inc.com> wrote:

I have started it but will get it wrapped up. When we spoke a couple weeks ago, we discussed me providing a cost through Dec 2025. Are you looking for the extended projection as well?

Craig Ellis, LSP

Senior Project Manager

BETA Group, Inc. | 781.255.1982

[Twitter](#) | [LinkedIn](#) | [Facebook](#) | [Instagram](#)

[Join our team!](#)

From: Benn Sherman <bsherman@uxbridge-ma.gov>

Sent: Thursday, February 18, 2021 4:01 PM

To: Craig Ellis <CELLIS@BETA-Inc.com>

Subject: Soils Project

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Hover over any links before clicking them and forward questionable emails to IT if you are unsure. Forward spam to spam@appriver.com

Craig-

Any luck with projections for engineering support for next year? I am starting my capital review on early next week. Let me know

Benn...

Benn S. Sherman, PE
Director of Public Works

Town of Uxbridge | 147 Hecla Street | Uxbridge, MA 01569
508.278.8616 | fax: 508.278.3179

[Uxbridge DPW Webpage](#) | [Facebook](#)

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This email message (and any attachments) contains information from BETA Group, Inc. that is confidential. If you are not the intended recipient(s), you may not disclose, copy, distribute, rely upon, or use its contents. Please reply to the sender immediately and delete this message. Thank you for your cooperation.

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TOWN OF UXBRIDGE
 DEPARTMENT OF PUBLIC WORKS

147 HECLA STREET
 UXBRIDGE, MASSACHUSETTS 01569-1326
 508-278-8616 ♦ Fax 508-278-3179

Benn Sherman, P.E.
 Director

| Estimated Volume | Est. Expense Low | Est. Expense High | Fiscal Year | Time Period |
|------------------|------------------|-------------------|-------------|-----------------|
| 425 | \$ 13,600.00 | \$ 22,100.00 | 20 | 5/1/20 6/30/20 |
| 2,550 | \$ 81,600.00 | \$ 132,600.00 | 21 | 7/1/20 6/30/21 |
| 2,550 | \$ 81,600.00 | \$ 132,600.00 | 22 | 7/1/21 6/30/22 |
| 1,300 | \$ 41,600.00 | \$ 67,600.00 | 23 | 7/1/22 12/31/22 |
| 1,330 | \$ 42,560.00 | \$ 69,160.00 | 23 | 1/1/23 6/30/23 |
| 2,550 | \$ 81,600.00 | \$ 132,600.00 | 24 | 7/1/23 6/30/24 |
| 2,550 | \$ 81,600.00 | \$ 132,600.00 | 25 | 7/1/24 6/30/25 |
| 1,300 | \$ 41,600.00 | \$ 67,600.00 | 26 | 7/1/25 12/31/25 |

\$ 465,760.00 \$ 756,860.00

\$ 81,600.00 \$ 132,600.00 FY22

\$ 84,160.00 \$ 136,760.00 FY23

\$ 81,600.00 \$ 132,600.00 FY24

\$ 81,600.00 \$ 132,600.00 FY25

\$ 41,600.00 \$ 67,600.00 FY26

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TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 12/4/2018 Date of Last Edit: 2/26/2020

Project Title: Pavement Management/Road Improvement Program

Category: Roads

Department: Public Works-Highway Division

Project: New Recurring Resubmission

Multiyear Phase of

Department Priority

Urgent/Legally Required

Maintain Service

Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

At the present time, there is not sufficient funding within the departmental budget or MassDOT Chapter 90 program to cover these costs. Until 2018, Chapter 90 funds were the only funds available for use on those roadways listed on the Chapter 90 inventory. The forecasting model from the pavement management system indicates a minimum of two times (2x) the annual Chapter 90 funding (~\$1M) is required to maintain a level Road Surface Rating (RSR). Deferring maintenance will only increase the construction costs in future years. Since FY2018, Town Meeting has authorized additional funds to assist in closing the gap needed to improve the RSR.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|--------------------|--|------------------|------------------|------------------|------------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$300,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 | \$60,000 |
| Land Acquisition | \$0 | | | | | |
| Construction | \$4,450,000 | \$890,000 | \$890,000 | \$890,000 | \$890,000 | \$890,000 |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$4,750,000 | \$950,000 | \$950,000 | \$950,000 | \$950,000 | \$950,000 |

Funding Source(s)
Check all that apply

Tax Levy

Debt

Enterprise Receipts

Stabilization

Free Cash

Revolving Fund

CPA

Grant(s) or Other Ch90,

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s)
Check all that apply

Open Space

Recreation

Historical

Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Pavement Management/Road Improvement Program
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 2018
Department: Public Works-Highway Division

Existing Conditions

The existing road and associated infrastructure are declining. The pavement management system was fully updated in 2016 and all projects since have been entered into the system for analysis. The baseline RSR in 2016 was 64 and the current RSR declined since. The overall roadway network will continue to decline without sufficient funding. The DPW is currently undertaking a full update to the pavement system and will be reevaluating the 5-year Road Improvement Program. Upon completion, the DPW will present to the BOS/Road Commissioners for approval of the long range plan.

Project Description

This capital program includes the annual town-wide resurfacing program. This request is needed to supplement the monies that are currently funded through Chapter 90 grant program in order to maintain the current RSR index as determined by the pavement management system. For FY2022, the Town's Chapter 90 apportionment will be \$508,120. The DPW will be requesting supplemental funding at the Spring Annual Town meeting in the amount \$485,000. Both Chapter 90 and Town funds will be applied to the proposed FY2022 resurfacing program.

Justification/Benefits

The roadway network has been a constant state of decline due to the lack of adequate funding (Chapter 90 & Town). The additional \$485,000 proposed at the spring Spring Annual Town Meeting and recent grant awards, we anticipate the road surface rating will begin to improve.

Operating Budget Discussion

This will lessen budgetary costs that are put into interim repairs caused by the decline in roadway conditions.

Estimate Basis

Pavement management system estimates

Time/Project Schedule

Annually

Alternatives

None. Deferring maintenance will only result in increased construction costs.

Key Assumptions

Pavement management system only takes into account asphalt related costs. Additional cost, such as sidewalks, drainage, police details are added to the system for planning purposes. As contracts are developed, detailed measurements are obtained for estimating purposes. Chapter 90 funds are also needed to address deficient bridges/culverts, drainage and traffic signals. Accommodating this into the program will reduce the number of roadways that can be addressed.

Other

Historically, funding comes through the MassDOT Chapter 90 program. The Town has approved monies since FY2018 and we are requesting a proposed increase to \$440,000 for FY2022. We continue to apply for other funding opportunities. During FY2021, the Town was awarded \$241,875 under the MassDOT Shared Streets and Spaces program. These funds were applied to the Hartford Avenue East project, thus freeing up funds to move the remaining FY2021 projects forward. The DPW was awarded a Shared Winter Streets and Spaces grant in the amount of \$146,907.25. These funds will be used to improve the Wesgean Square area for better pedestrian movements. And finally, MassDOT approved our project initiation form (PIF) request for State Transportation Program (STIP) funding for Douglas Street reconstruction.

Uxbridge, Massachusetts

Proposed FY2018 to FY2021 Roadway Capital Improvement Plan Summary

*Costs Serve For Estimating Purposes Only. Not to be used for Bidding/Construction.

| BOS Approved - 10/28/2019 | Length (Miles) | Square Yards | Repair | Police | Contingency | Supplemental | Total |
|----------------------------------|---|------------------|---------------------|--------------------|--------------------|---------------|-----------------------|
| FY2020 | | | | | | | |
| Chapter 90 + Local | | | | | | | |
| Sidewalk | 0.56 | 11,388.95 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$349,200.00 |
| Leveling | 0.97 | 10,378.68 | \$83,029.42 | \$6,190.28 | \$4,151.47 | \$0.00 | \$93,371.18 |
| Reclamation | 1.02 | 16,150.90 | \$323,018.10 | \$48,452.71 | \$16,150.90 | \$0.00 | \$387,621.71 |
| Year Total: | 2.54 | 37,918.53 | \$406,047.52 | \$54,643.00 | \$20,302.38 | \$0.00 | \$830,192.89 |
| FY2021 | | | | | | | |
| Chapter 90 + Local | | | | | | | |
| Mill and Overlay - 2" | 0.21 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$160,000.00 |
| Mill and Overlay - 2" | 1.32 | 19,819.74 | \$277,476.40 | \$41,621.46 | \$13,873.82 | \$0.00 | \$332,971.68 |
| Reclamation | 0.56 | 2,348.82 | \$274,755.43 | \$41,213.31 | \$13,737.77 | \$0.00 | \$329,706.51 |
| Complete Streets | DID NOT RECEIVE COMPLETE STREETS GRANT | | | | | | |
| Sidewalk | 0.90 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$400,000.00 |
| Year Total: | 2.98 | 22,168.57 | \$552,231.83 | \$82,834.77 | \$27,611.59 | \$0.00 | \$1,222,678.19 |
| FY2022 | | | | | | | |
| Chapter 90 + Local | | | | | | | |
| Mill and Overlay - 2" | 1.52 | 24,485.91 | \$342,802.80 | \$51,420.42 | \$11,495.32 | \$0.00 | \$405,718.55 |
| Reclamation | 0.90 | 14,744.16 | \$294,883.16 | \$44,232.47 | \$14,744.16 | \$0.00 | \$353,859.79 |
| Year Total: | 2.42 | 39,230.07 | \$637,685.96 | \$95,652.89 | \$26,239.48 | \$0.00 | \$759,578.34 |
| FY2023 | | | | | | | |
| Chapter 90 + Local | | | | | | | |
| Crack Seal | 30.00 | | \$25,000.00 | \$0.00 | \$0.00 | \$0.00 | |
| Mill and Overlay - 2" | 0.24 | 4,008.17 | \$56,114.43 | \$8,417.16 | \$2,805.72 | \$0.00 | \$67,337.32 |
| Reclamation | 0.79 | 12,370.01 | \$247,400.25 | \$37,110.04 | \$12,370.01 | \$0.00 | \$771,680.30 |
| Year Total: | 31.04 | 16,378.19 | \$328,514.68 | \$45,527.20 | \$15,175.73 | \$0.00 | \$839,017.62 |
| FY2024 | | | | | | | |
| Chapter 90 + Local | | | | | | | |
| Leveling | 3.33 | 32,895.74 | \$263,165.90 | \$39,474.88 | \$13,158.29 | \$0.00 | \$315,799.08 |

| BOS Approved - 10/28/2019 | Length (Miles) | Square Yards | Repair | Police | Contingency | Supplemental | Total |
|----------------------------------|-----------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|
| Mill and Overlay - 2" | 0.46 | 10,874.12 | \$152,237.67 | \$22,835.65 | \$7,611.88 | \$0.00 | \$432,685.21 |
| Reclamation | 0.59 | 4,880.69 | \$97,613.77 | \$14,642.06 | \$4,880.69 | \$0.00 | \$117,136.52 |
| Year Total: | 4.39 | 48,650.55 | \$513,017.34 | \$76,952.60 | \$25,650.87 | \$0.00 | \$865,620.81 |

| | | | | | | | |
|-------------------|--------------|-------------------|-----------------------|---------------------|---------------------|---------------|-----------------------|
| CIP Total: | 43.36 | 164,345.90 | \$2,437,497.33 | \$355,610.47 | \$114,980.05 | \$0.00 | \$4,517,087.84 |
|-------------------|--------------|-------------------|-----------------------|---------------------|---------------------|---------------|-----------------------|

Uxbridge, Massachusetts

Proposed FY2020 to FY2024 Roadway Capital Improvement Plan

*Costs Serve For Estimating Purposes Only. Not to be used for Bidding/Construction.

BOS Approved - 10/28/2019

| | | | Repair Type | Width | Square Yards | Repair | Police | Contingency | SidewalkCost | Total |
|---------------------------|---------------|-------------------|-------------|-------|-----------------|--------------------|--------------------|-------------------|---------------|--------------------|
| FY2020 | | | | | | | | | | |
| Chapter 90 + Local | | | | | | | | | | |
| BOWEN DRIVE | | 0.06 Miles | | | | | | | | |
| BOWEN DR | PROVIDENCE RD | DEAD END | Leveling | 19 | 669.60 | \$5,356.77 | \$803.52 | \$267.84 | \$0.00 | \$6,428.12 |
| Project Totals: | | | | | 669.60 | \$5,356.77 | \$803.52 | \$267.84 | \$0.00 | \$6,428.12 |
| HAZEL STREET | | 0.38 Miles | | | | | | | | |
| HAZEL ST-09 | LANDFILL ENT. | HARTFORD AVE WEST | Leveling | 20 | 4,488.97 | \$35,911.78 | \$5,386.77 | \$1,795.59 | \$0.00 | \$43,094.13 |
| Project Totals: | | | | | 4,488.97 | \$35,911.78 | \$5,386.77 | \$1,795.59 | \$0.00 | \$43,094.13 |
| MILL STREET | | 0.52 Miles | | | | | | | | |
| MILL ST-01 | CHOCOLOG RD | POND ST | Leveling | 17 | 2,992.89 | \$23,943.15 | \$0.00 | \$1,197.16 | \$0.00 | \$25,140.30 |
| MILL ST-02 | POND ST | OLD RICHARDSON ST | Leveling | 17 | 2,227.22 | \$17,817.73 | \$0.00 | \$890.89 | \$0.00 | \$18,708.62 |
| Project Totals: | | | | | 5,220.11 | \$41,760.88 | \$0.00 | \$2,088.04 | \$0.00 | \$43,848.92 |
| CHESTNUT STREET | | 0.31 Miles | | | | | | | | |
| CHESTNUT ST-02.1 | ALDRICH ST | DRIVEWAY #155 | Reclamation | 14 | 2,545.83 | \$50,916.67 | \$7,637.50 | \$2,545.83 | \$0.00 | \$61,100.00 |
| Project Totals: | | | | | 2,545.83 | \$50,916.67 | \$7,637.50 | \$2,545.83 | \$0.00 | \$61,100.00 |
| COPPOLA STREET | | 0.21 Miles | | | | | | | | |
| COPPOLA ST-01 | QUAKER HWY | ALMSHOUSE RD | Reclamation | 30 | 959.22 | \$19,184.34 | \$2,877.65 | \$959.22 | \$0.00 | \$23,021.21 |
| COPPOLA ST-02 | ALMSHOUSE RD | BRIDGE | Reclamation | 30 | 1,470.35 | \$29,407.02 | \$4,411.05 | \$1,470.35 | \$0.00 | \$35,288.43 |
| COPPOLA ST-03 | BRIDGE | PROVIDENCE RD | Reclamation | 30 | 1,327.84 | \$26,556.71 | \$3,983.51 | \$1,327.84 | \$0.00 | \$31,868.06 |
| Project Totals: | | | | | 3,757.40 | \$75,148.08 | \$11,272.21 | \$3,757.40 | \$0.00 | \$90,177.69 |
| PROVIDENCE ROAD | | 0.04 Miles | | | | | | | | |
| PROVIDENCE RD-03 | COPPOLA ST | BOWEN DR | Reclamation | 20 | 441.88 | \$8,837.62 | \$1,325.64 | \$441.88 | \$0.00 | \$10,605.15 |
| Project Totals: | | | | | 441.88 | \$8,837.62 | \$1,325.64 | \$441.88 | \$0.00 | \$10,605.15 |
| RAWSON STREET | | 0.06 Miles | | | | | | | | |
| RAWSON ST-02 | DRIVEWAY #61 | DRIVEWAY #95 | Reclamation | 16 | 533.33 | \$10,666.65 | \$1,600.00 | \$533.33 | \$0.00 | \$12,799.98 |
| Project Totals: | | | | | 533.33 | \$10,666.65 | \$1,600.00 | \$533.33 | \$0.00 | \$12,799.98 |
| RIVULET STREET | | 0.40 Miles | | | | | | | | |
| RIVULET ST-01 | NORTH MAIN ST | BOWLDER ST | Reclamation | 41 | 1,595.91 | \$31,918.14 | \$4,787.72 | \$1,595.91 | \$0.00 | \$38,301.77 |
| RIVULET ST-02 | BOWLDER ST | GUERTIN AVE | Reclamation | 41 | 556.59 | \$11,131.85 | \$1,669.78 | \$556.59 | \$0.00 | \$13,358.22 |
| RIVULET ST-03 | GUERTIN AVE | BEVERLY AVE | Reclamation | 41 | 5,259.47 | \$105,189.44 | \$15,778.42 | \$5,259.47 | \$0.00 | \$126,227.33 |
| RIVULET ST-04 | BEVERLY AVE | HARTFORD AVE WEST | Reclamation | 27 | 1,460.48 | \$29,209.65 | \$4,381.45 | \$1,460.48 | \$0.00 | \$35,051.58 |

ManageMyRoads by BETA

BOS Approved - 10/28/2019

| | | Repair Type | Width | Square Yards | Repair | Police | Contingency | SidewalkCost | Total | |
|--|---------------------|---|----------|--------------|------------------|---------------------|--------------------|--------------------|---------------------|---------------------|
| | | Project Totals: | | | 8,872.45 | \$177,449.08 | \$26,617.36 | \$8,872.45 | \$0.00 | \$212,938.89 |
| HARTFORD AVENUE EAST 0.56 Miles | | COMPLETED IN FY2021 DUE TO FUNDING | | | | | | | | |
| HARTFORD AVE EAST-01 | NORTH MAIN ST | YALE ST | Sidewalk | 42 | 3,004.80 | \$0.00 | \$0.00 | \$0.00 | \$349,200.00 | \$349,200.00 |
| HARTFORD AVE EAST-02 | YALE ST | HARVARD ST | Sidewalk | 42 | 1,053.90 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HARTFORD AVE EAST-03 | HARVARD ST | BOSTON ST | Sidewalk | 42 | 1,117.85 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HARTFORD AVE EAST-04 | BOSTON ST | SCHOOL ST | Sidewalk | 42 | 1,259.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HARTFORD AVE EAST-05 | SCHOOL ST | BRIDGE | Sidewalk | 42 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HARTFORD AVE EAST-06 | BRIDGE | CROWN AND EAGLE WA | Sidewalk | 42 | 1,477.03 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HARTFORD AVE EAST-07 | CROWN AND EAGLE WAY | GRANITE ST | Sidewalk | 42 | 3,476.36 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | | Project Totals: | | | 11,388.95 | \$0.00 | \$0.00 | \$0.00 | \$349,200.00 | \$349,200.00 |
| | | Year Total: | | | 37,918.53 | \$406,047.52 | \$54,643.00 | \$20,302.38 | \$349,200.00 | \$830,192.89 |

FY2021**Chapter 90 + Local****HARTFORD AVENUE WEST 1.52 Miles****PROPOSED IN SPRING 2021**

| | | | | | | | | | | |
|----------------------|----------------|------------------------|-----------------------|----|------------------|---------------------|--------------------|--------------------|---------------------|---------------------|
| HARTFORD AVE WEST-03 | WILLIAMS ST | DRIVEWAY #398 | Mill and Overlay - 2" | 24 | 7,645.28 | \$107,033.96 | \$16,055.09 | \$5,351.70 | \$0.00 | \$128,440.75 |
| HARTFORD AVE WEST-03 | DRIVEWAY #282 | GERVAIS WAY | Mill and Overlay - 2" | 24 | 3,075.03 | \$43,050.36 | \$6,457.55 | \$2,152.52 | \$0.00 | \$51,660.43 |
| HARTFORD AVE WEST-04 | GERVAIS WAY | SUTTON ST | Mill and Overlay - 2" | 28 | 9,099.43 | \$127,392.08 | \$19,108.81 | \$6,369.60 | \$0.00 | \$152,870.49 |
| HARTFORD AVE WEST-06 | RIVULET STREET | ELM ST | Mill and Overlay - 2" | 40 | | \$0.00 | \$0.00 | \$0.00 | \$160,000.00 | \$160,000.00 |
| HARTFORD AVE WEST-07 | ELM ST | NORTH MAIN ST | Mill and Overlay - 2" | 40 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | | Project Totals: | | | 19,819.74 | \$277,476.40 | \$41,621.46 | \$13,873.82 | \$160,000.00 | \$492,971.68 |

HARTFORD AVENUE EAST 0.56 Miles

| | | | | | | | | | | |
|----------------------|---------------------|------------------------|-------------|----|-----------------|---------------------|--------------------|--------------------|---------------|---------------------|
| HARTFORD AVE EAST-01 | NORTH MAIN ST | YALE ST | Reclamation | 42 | | \$60,095.97 | \$9,014.40 | \$3,004.80 | \$0.00 | \$72,115.16 |
| HARTFORD AVE EAST-02 | YALE ST | HARVARD ST | Reclamation | 42 | | \$21,078.03 | \$3,161.71 | \$1,053.90 | \$0.00 | \$25,293.64 |
| HARTFORD AVE EAST-03 | HARVARD ST | BOSTON ST | Reclamation | 42 | | \$22,357.05 | \$3,353.56 | \$1,117.85 | \$0.00 | \$26,828.46 |
| HARTFORD AVE EAST-04 | BOSTON ST | SCHOOL ST | Reclamation | 42 | | \$25,179.95 | \$3,776.99 | \$1,259.00 | \$0.00 | \$30,215.94 |
| HARTFORD AVE EAST-05 | SCHOOL ST | BRIDGE | Reclamation | 42 | 2,348.82 | \$46,976.45 | \$7,046.47 | \$2,348.82 | \$0.00 | \$56,371.74 |
| HARTFORD AVE EAST-06 | BRIDGE | CROWN AND EAGLE WA | Reclamation | 42 | | \$29,540.68 | \$4,431.10 | \$1,477.03 | \$0.00 | \$35,448.82 |
| HARTFORD AVE EAST-07 | CROWN AND EAGLE WAY | GRANITE ST | Reclamation | 42 | | \$69,527.30 | \$10,429.09 | \$3,476.36 | \$0.00 | \$83,432.76 |
| | | Project Totals: | | | 2,348.82 | \$274,755.43 | \$41,213.31 | \$13,737.77 | \$0.00 | \$329,706.51 |

Complete Streets DID NOT RECEIVE COMPLETE STREETS GRANT**GRANITE STREET 0.90 Miles**

| | | | | | | | | | | |
|---------------|-------------------|------------------------|----------|----|--|---------------|---------------|---------------|---------------------|---------------------|
| GRANITE ST-01 | HARTFORD AVE EAST | ROGERSON CROSSING | Sidewalk | 28 | | \$0.00 | \$0.00 | \$0.00 | \$400,000.00 | \$400,000.00 |
| GRANITE ST-02 | ROGERSON CROSSING | LONDONDERRY WAY | Sidewalk | 28 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GRANITE ST-03 | LONDONDERRY WAY | PULASKI ST | Sidewalk | 28 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GRANITE ST-04 | PULASKI ST | WARSAW ST | Sidewalk | 28 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| GRANITE ST-05 | WARSAW ST | OAK ST | Sidewalk | 28 | | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| | | Project Totals: | | | | \$0.00 | \$0.00 | \$0.00 | \$400,000.00 | \$400,000.00 |

ManageMyRoads by BETA

| Repair Type | Width | Square Yards | Repair | Police | Contingency | SidewalkCost | Total |
|--------------------|-------|------------------|---------------------|--------------------|--------------------|---------------------|----------------------|
| Year Total: | | 22,168.57 | \$552,231.83 | \$82,834.77 | \$27,611.59 | \$560,000.00 | \$1,222,678.1 |

FY2022

Chapter 90 + Local

HARTFORD AVENUE WEST 1.09 Miles

| | | | | | | | | | | |
|-------------------------------------|---------------|--|-----------------------|----|------------------|---------------------|--------------------|-------------------|---------------|---------------------|
| HARTFORD AVE WEST-01DOUGLAS TL | STATE HWY | | Mill and Overlay - 2" | 24 | 8,064.02 | \$112,896.30 | \$16,934.45 | \$0.00 | \$0.00 | \$129,830.75 |
| HARTFORD AVE WEST-02PROVIDENCE PIKE | WILLIAMS ST | | Mill and Overlay - 2" | 24 | 3,131.67 | \$43,843.38 | \$6,576.51 | \$2,192.17 | \$0.00 | \$52,612.06 |
| HARTFORD AVE WEST-05SUTTON ST | RIVULET ST | | Mill and Overlay - 2" | 40 | 2,094.65 | \$29,325.16 | \$4,398.77 | \$1,466.26 | \$0.00 | \$35,190.20 |
| HARTFORD AVE WEST-06RIVULET STREET | ELM ST | | Mill and Overlay - 2" | 40 | 2,723.43 | \$38,128.06 | \$5,719.21 | \$1,906.40 | \$0.00 | \$45,753.68 |
| HARTFORD AVE WEST-07ELM ST | NORTH MAIN ST | | Mill and Overlay - 2" | 40 | 2,193.72 | \$30,712.02 | \$4,606.80 | \$1,535.60 | \$0.00 | \$36,854.43 |
| Project Totals: | | | | | 18,207.50 | \$254,904.93 | \$38,235.74 | \$7,100.43 | \$0.00 | \$300,241.11 |

OAK STREET 0.43 Miles

| | | | | | | | | | | |
|------------------------|-------------|-------------|-----------------------|----|-----------------|--------------------|--------------------|-------------------|---------------|---------------------|
| OAK ST-01 | MENDON ST | CROSS ST | Mill and Overlay - 2" | 29 | 2,591.34 | \$36,278.73 | \$5,441.81 | \$1,813.94 | \$0.00 | \$43,534.48 |
| OAK ST-02 | CROSS ST | MORRISON ST | Mill and Overlay - 2" | 23 | 1,755.15 | \$24,572.10 | \$3,685.81 | \$1,228.60 | \$0.00 | \$29,486.52 |
| OAK ST-03 | MORRISON ST | WARSAW ST | Mill and Overlay - 2" | 23 | 1,931.93 | \$27,047.04 | \$4,057.06 | \$1,352.35 | \$0.00 | \$32,456.44 |
| Project Totals: | | | | | 6,278.42 | \$87,897.87 | \$13,184.68 | \$4,394.89 | \$0.00 | \$105,477.44 |

GRANITE STREET 0.90 Miles

| | | | | | | | | | | |
|------------------------|-------------------|-------------------|-------------|----|------------------|---------------------|--------------------|--------------------|---------------|---------------------|
| GRANITE ST-01 | HARTFORD AVE EAST | ROGERSON CROSSING | Reclamation | 28 | 3,265.62 | \$65,312.34 | \$9,796.85 | \$3,265.62 | \$0.00 | \$78,374.81 |
| GRANITE ST-02 | ROGERSON CROSSING | LONDONDERRY WAY | Reclamation | 28 | 1,128.28 | \$22,565.58 | \$3,384.84 | \$1,128.28 | \$0.00 | \$27,078.70 |
| GRANITE ST-03 | LONDONDERRY WAY | PULASKI ST | Reclamation | 28 | 7,311.48 | \$146,229.53 | \$21,934.43 | \$7,311.48 | \$0.00 | \$175,475.44 |
| GRANITE ST-04 | PULASKI ST | WARSAW ST | Reclamation | 28 | 1,946.14 | \$38,922.77 | \$5,838.42 | \$1,946.14 | \$0.00 | \$46,707.33 |
| GRANITE ST-05 | WARSAW ST | OAK ST | Reclamation | 28 | 1,092.65 | \$21,852.93 | \$3,277.94 | \$1,092.65 | \$0.00 | \$26,223.51 |
| Project Totals: | | | | | 14,744.16 | \$294,883.16 | \$44,232.47 | \$14,744.16 | \$0.00 | \$353,859.79 |
| Year Total: | | | | | 39,230.07 | \$637,685.96 | \$95,652.89 | \$26,239.48 | \$0.00 | \$759,578.34 |

FY2023

Chapter 90 + Local

Crack Sealing Various 8.52 Miles

| | | | | | | | | | | |
|------------------------|---|---|------------|----|--|--------------------|---------------|---------------|--|--|
| Crack Sealing Various | 0 | 0 | Crack Seal | 10 | | \$25,000.00 | \$0.00 | \$0.00 | | |
| Project Totals: | | | | | | \$25,000.00 | \$0.00 | \$0.00 | | |

CROWN AND EAGLE WAY 0.24 Miles

| | | | | | | | | | | |
|------------------------|-------------------|-------------------|-----------------------|----|-----------------|--------------------|-------------------|-------------------|---------------|--------------------|
| CROWN AND EAGLE WAY | HARTFORD AVE EAST | ROGERSON CROSSING | Mill and Overlay - 2" | 28 | 4,008.17 | \$56,114.43 | \$8,417.16 | \$2,805.72 | \$0.00 | \$67,337.32 |
| Project Totals: | | | | | 4,008.17 | \$56,114.43 | \$8,417.16 | \$2,805.72 | \$0.00 | \$67,337.32 |

BEACON STREET 0.06 Miles

| | | | | | | | | | | |
|------------------------|---------|----------|-------------|----|-----------------|--------------------|-------------------|-------------------|---------------|--------------------|
| BEACON ST | RICE ST | DEAD END | Reclamation | 31 | 1,137.77 | \$22,755.41 | \$3,413.31 | \$1,137.77 | \$0.00 | \$27,306.50 |
| Project Totals: | | | | | 1,137.77 | \$22,755.41 | \$3,413.31 | \$1,137.77 | \$0.00 | \$27,306.50 |

BOS Approved - 10/28/2019

| | | | Repair Type | Width | Square Yards | Repair | Police | Contingency | SidewalkCost | Total |
|---------------------------|-------------------|-----------|-------------|-------|------------------|---------------------|--------------------|--------------------|---------------------|---------------------|
| BOSTON STREET | | | 0.11 Miles | | | | | | | |
| BOSTON ST | HARTFORD AVE EAST | DEAD END | Reclamation | 28 | 1,816.48 | \$36,329.52 | \$5,449.43 | \$1,816.48 | \$96,000.00 | \$139,595.42 |
| Project Totals: | | | | | 1,816.48 | \$36,329.52 | \$5,449.43 | \$1,816.48 | \$96,000.00 | \$139,595.42 |
| HARVARD STREET | | | 0.10 Miles | | | | | | | |
| HARVARD ST | HARTFORD AVE EAST | DEAD END | Reclamation | 28 | 1,711.63 | \$34,232.60 | \$5,134.89 | \$1,711.63 | \$80,000.00 | \$121,079.12 |
| Project Totals: | | | | | 1,711.63 | \$34,232.60 | \$5,134.89 | \$1,711.63 | \$80,000.00 | \$121,079.12 |
| OTIS STREET | | | 0.06 Miles | | | | | | | |
| OTIS ST | YALE ST | DEAD END | Reclamation | 28 | 983.12 | \$19,662.45 | \$2,949.37 | \$983.12 | \$26,400.00 | \$49,994.94 |
| Project Totals: | | | | | 983.12 | \$19,662.45 | \$2,949.37 | \$983.12 | \$26,400.00 | \$49,994.94 |
| POND STREET | | | 0.04 Miles | | | | | | | |
| POND ST-04 | OTIS ST | DEAD END | Reclamation | 28 | 692.31 | \$13,846.27 | \$2,076.94 | \$692.31 | \$32,400.00 | \$49,015.53 |
| Project Totals: | | | | | 692.31 | \$13,846.27 | \$2,076.94 | \$692.31 | \$32,400.00 | \$49,015.53 |
| PULASKI STREET | | | 0.11 Miles | | | | | | | |
| PULASKI ST | GRANITE ST | DEAD END | Reclamation | 25 | 1,645.56 | \$32,911.14 | \$4,936.67 | \$1,645.56 | \$96,000.00 | \$135,493.37 |
| Project Totals: | | | | | 1,645.56 | \$32,911.14 | \$4,936.67 | \$1,645.56 | \$96,000.00 | \$135,493.37 |
| RICE STREET | | | 0.09 Miles | | | | | | | |
| RICE ST | PULASKI ST | DEAD END | Reclamation | 31 | 1,550.31 | \$31,006.25 | \$4,650.94 | \$1,550.31 | \$0.00 | \$37,207.50 |
| Project Totals: | | | | | 1,550.31 | \$31,006.25 | \$4,650.94 | \$1,550.31 | \$0.00 | \$37,207.50 |
| SCHOOL STREET | | | 0.13 Miles | | | | | | | |
| SCHOOL ST | HARTFORD AVE EAST | DEAD END | Reclamation | 18 | 1,344.24 | \$26,884.82 | \$4,032.72 | \$1,344.24 | \$72,000.00 | \$104,261.79 |
| Project Totals: | | | | | 1,344.24 | \$26,884.82 | \$4,032.72 | \$1,344.24 | \$72,000.00 | \$104,261.79 |
| YALE STREET | | | 0.09 Miles | | | | | | | |
| YALE ST-01 | HARTFORD AVE EAST | OTIS ST | Reclamation | 28 | 578.93 | \$11,578.69 | \$1,736.80 | \$578.93 | \$72,000.00 | \$85,894.42 |
| YALE ST-02 | OTIS ST | DEAD END | Reclamation | 28 | 909.65 | \$18,193.09 | \$2,728.96 | \$909.65 | \$0.00 | \$21,831.71 |
| Project Totals: | | | | | 1,488.59 | \$29,771.78 | \$4,465.77 | \$1,488.59 | \$72,000.00 | \$107,726.14 |
| Year Total: | | | | | 16,378.19 | \$328,514.68 | \$45,527.20 | \$15,175.73 | \$474,800.00 | \$839,017.62 |
| FY2024 | | | | | | | | | | |
| Chapter 90 + Local | | | | | | | | | | |
| ADAMS LANE | | | 0.13 Miles | | | | | | | |
| ADAMS LN | PROVIDENCE RD | DEAD END | Leveling | 24 | 1,824.70 | \$14,597.57 | \$2,189.64 | \$729.88 | \$0.00 | \$17,517.09 |
| Project Totals: | | | | | 1,824.70 | \$14,597.57 | \$2,189.64 | \$729.88 | \$0.00 | \$17,517.09 |
| BEAUSOLIEL ROAD | | | 0.07 Miles | | | | | | | |
| BEAUSOLIEL RD | BLACKSTONE ST | BROWN TER | Leveling | 14 | 557.63 | \$4,461.00 | \$669.15 | \$223.05 | \$0.00 | \$5,353.20 |

ManageMyRoads by BETA

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TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 9/14/2020 Date of Last Edit: 3/2/2021

Project Title: Boom Flail Attachment Replacement
 Category: Equipment
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The DPW only has one (1) boom flail unit and two trackless machines. The current unit is in need of replacement but the DPW cannot maintain the level of service for conducting roadside mowing and easement clearing that is needed on an annual basis. The DPW proposes to purchase an additional boom flail unit so we can run both Trackless machines during the year. This unit will be by both the Highway and Wastewater Divisions.



Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|-----------------|--|------------|------------|------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$0 | | | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$39,000 | \$39,000 | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$39,000 | \$39,000 | \$0 | \$0 | \$0 | \$0 |

Funding Source(s) Check all that apply

- Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other

| | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------------|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Boom Flail Attachment Replacement
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022

Initiation Date: 9/14/20
Department: Public Works-Highway Division

Existing Conditions

The existing unit is in need of replacement but we can not maintain the level of service expected for roadside mowing and easment clearing. This is a key attachment to the Trackless machine that is used for roadside mowing and clearing of cross country easements.

Project Description

Replace the existing boom flail attachment through State Contract FAC88.

Justification/Benefits

This unit is required for roadside mowing and clearing of cross country easements and will be used with the new Trackless machine to be able to have both machines in service during the year.

Operating Budget Discussion

Funds were previously requested through the budget process but were not approved.

Estimate Basis

State Contract FAC88 (includes a 5% increase from vendor to coincide with the project increase in state contract pricing).

Time/Project Schedule

FY2022

Alternatives

Continue to spend maintenance funds to keep the existing unit in service (it is beyond its useful life) and lose efficiency with not having both Trackless machines in service.

Key Assumptions

State Contract FAC88.

Other



CONTRACTOR'S EQUIPMENT

Town of Uxbridge
Uxbridge Public Works
147 Hecla Street
Uxbridge MA, 01569

June 24, 2020

The Trackless attachment pricing you have requested is listed below. The pricing is thru the FAC88 State Contract.

| | |
|----------------------------------|---------------|
| (1) Trackless Boom Flail | \$ 30,840.00 |
| (4) Dual Luggar Tires and Wheels | \$ 5,050.00 * |
| (1) RH Window Guard and Hardware | \$ 430.00 |
| (1) Installation | \$ 525.00** |

\$ 36,845.00 Say \$37,000

\$ 37,000.00 x 5% = \$ 38,850.00

Say \$39,000.00

* Dual Luggar Tires and Rims Required for the Boom Flail.

** Factory Trained Technician to install Flail / Tires / Guard

Please contact me with any questions you may have regarding the MT5 Trackless or any other equipment needs your department may have at 781-315-2420. I look forward to working with you and the town of Uxbridge, MA in your equipment purchasing process.

Thank you,

Timothy Ledogar
C.N. Wood Company

200 Merrimac Street, Woburn, MA 01801 (781) 935-1919 Fax (781) 937-9809
60 Shun Pike, Johnston, RI 02919 (401) 942-9191 Fax (401) 942-9266
102 State Road, Whately, MA 01093 (413) 665-7009 Fax (413) 665-7277

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TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 12/4/2018 Date of Last Edit: 3/2/2021

Project Title: High & Park Street Drainage Study

Category: Infrastructure

Department: Public Works-Highway Division

Project: New Recurring Resubmission

Multiyear Phase of

Department Priority

Urgent/Legally Required

Maintain Service

Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Increased overtime during both summer and winter months to address water issues that continue to occur at both locations

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|-----------------|--|------------|------------|------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$14,600 | \$14,600 | | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$14,600 | \$14,600 | \$0 | \$0 | \$0 | \$0 |

Funding Source(s)
Check all that apply

Tax Levy

Debt

Enterprise Receipts

Stabilization

Free Cash

Revolving Fund

CPA

Grant(s) or Other Ch90,MVP,HMG

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s)
Check all that apply

Open Space

Recreation

Historical

Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: High & Park Street Drainage Study
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022

Initiation Date: 2018
Department: Public Works-Highway Division

Existing Conditions

Over the past years, we have experienced a number of intense rainfall events, which exposed a variety of drainage issues that have resulted in flooding of homes and roads along High and Park Streets. The existing drainage system comes down High Street to a low point just before So. Main/Rt. 122. From here the drainage discharges to a low lying area between High, Pleasant, Park and So. Main Streets. Flooding has occurred here a few times resulting in losses on private property.

Project Description

Fully map the closed drainage system, evaluate the affected drainage area and develop solutions to the flooding issues at both locations.

Justification/Benefits

The resident located at 4/6 Park Street has been flooded no less than 4 times since 2016. Upstream of this location we discovered drainage deficiencies on lower High Street. The resident at 7 High Street has experienced flooding/overtopping of the roadway causing damage to their home and landscape around the house.

Operating Budget Discussion

Increased contractor costs to evaluate, clean, map and inspect affected drainage system.

Estimate Basis

Received proposal estimate from consultant to perform this drainage evaluation/study.

Time/Project Schedule

FY2022

Alternatives

- 1) Do nothing and continue to have claims submitted by residents.
- 2) Evaluate watershed and develop alternatives for drainage improvements.

Key Assumptions

Study required to determine capital alternatives.

Other

We will continue to evaluate other funding sources. We have been working closely with the local legislative staff to investigate alternative funding.



November 25, 2020

Mr. Benn S. Sherman, Director
Department of Public Works
Town of Uxbridge
147 Hecla Street
Uxbridge, MA 01569

Re: High Street, Park Street and South Main Street Drainage Study

Dear Mr. Sherman:

BETA Group Inc. is pleased to submit this scope of services to the Town of Uxbridge under an Agreement for a Drain Study to identify potential causes of flooding issues reported at High Street, Park Street and South Main Street.

PROJECT UNDERSTANDING, DESCRIPTION AND APPROACH

Aging stormwater systems can no longer handle the amount and intensity of rainfall during severe rain events. This results in flooding of private properties in the South Main Street area and on both High Street and Park Street, as well as seepage and piping from a retaining wall supporting Park Street adjacent to the fire station on South Main Street.

The High Street, Park Street and South Main Street watershed area is approximately 46 acres with 48 known drainage structures and 4,340± linear feet of drainage pipe.

The Town would like to evaluate the existing drainage system for the watershed areas draining to the High Street/South Main Street and Park Street/South Main Street intersections (including all or portions of High Street, Park Street, Park Terrace, Pleasant Street, and Mary Jane Avenue), in order to evaluate contributing factors to stormwater-related flooding between High and Park Streets and to develop recommendations to improve stormwater drainage and alleviate flooding, including potential nature-based solutions or green infrastructure.

SCOPE OF SERVICES

Tasks to be performed by BETA include the following:

Develop a computer model of the drainage study area to simulate existing hydrologic and hydraulic conditions, as well as to identify and evaluate opportunities to improve the existing stormwater drainage system(s).

Develop conceptual level alternatives to address residential flooding, stormwater drainage capacity, and seepage and piping.

Develop conceptual level cost estimates for these alternatives

Summarize the results of the drainage study and recommendations in a technical memorandum

1. DATA COLLECTION AND FIELD VERIFICATION

A. Compile Available Data

Compile and review available information for the watershed, including:

- a. GIS data for stormwater features
- b. Photogrammetry to trace impervious surfaces and wooded areas.
- c. Record plans and calculations showing stormwater structures and treatment basins
- d. Obtain LiDAR - topography (2-foot contours) to create a surface
- e. NRCS soils data
- f. Other record reports

B. Develop Watershed Plan

Combine gathered data in an AutoCAD Civil3D plan including:

- a. Delineate watershed area to each catchbasin
- b. Provide area (sq. ft.) of impervious, grass and woodland areas
- c. Show time of concentration flow lines (if Tc is likely greater than 6 minutes)

C. Conduct Field Observations and Survey

Conduct a field visit(s) to:

- a. Provide photo survey of each catchbasin and stormwater control structure
- b. Verify watershed and surface conditions
- c. Investigate system connectivity questions

2. HYDROLOGIC AND HYDRAULIC MODELING

A. Develop Hydrologic/Hydraulic model

Develop a computer model of the drainage study area to simulate existing hydrologic and hydraulic conditions, as well as to identify and evaluate opportunities to improve the existing stormwater drainage system

3. DRAINAGE IMPROVEMENT ALTERNATIVES

A. Develop alternatives

Brainstorm options to reduce frequency and severity of flooding in the project areas. Consider impacts to local residents, current Town and private infrastructure, environmental impacts

B. Develop Potential Construction Costs for Alternatives

Develop an Order of Magnitude Engineering and Construction Costs for each alternative.

4. DELIVERABLES, MEETINGS AND PROJECT COORDINATION

A. Deliverables

The following will be provided:

- a. Technical Memo outlining the problem(s), data, procedures, modeling, alternative investigated with associated costs.
- b. Additional collected data including Survey data, camera videos and inspection reports.

B. Meetings

Prepare for and attend up to two (2) meetings with the Town to gather information and/or discuss results of the report.

5. ASSUMPTIONS

Effort under this task includes the following assumptions.

1. Town to provide available road/drainage plans and drainage plans and calculations for use as basis for modeling
2. Proposal includes 1 day for two person crew to verify structures, any additional survey necessary for this task to be provided by the Town.
3. Soils investigations not included.

FEE

The FEE for the scope of services identified above is not to exceed \$14,600 as itemized on attached worksheet.

Any additional meetings or items not included under this scope of services (described above) will be billed based on BETA's standard billing rate (time and material) and shall be approved by the Town of Uxbridge.

If we can be of any further assistance regarding this matter, please contact us at our office.

Very truly yours,
BETA Group, Inc.



Philip F Paradis, Jr., PE
Associate

Job No: 6991



JOB High, Park & South Main Drainage
 CALC PFP
 CHKD
 DESC Fee Estimate Worksheet

NO. 6991 T2
 DATE 11/25/20
 DATE
 SHEET 1 OF 1

High St, Park St, & South Main St Drainage

| Task | Labor (Hours) | | | | | | Expenses | | | Task Total |
|---|---------------|----|----|-----|------|-------------|------------------------|-----------|--|---------------|
| | Prin | PM | PE | ENG | Tech | Total HR | Labor Total (\$) | Travel \$ | | |
| Data Collection and Field Verification | | | | | | | | | | |
| Compile GIS, Data, Phogrametry, Soils & LiDar | | 2 | 0 | 8 | | 10 | \$ 1,261 | | | |
| Delineate Watersheds (areas, Tc) | 0 | 2 | 0 | 8 | | 10 | \$ 1,261 | | | |
| Field Verify Sturctures | 0 | 0 | 0 | 8 | 8 | 16 | \$ 1,536 | \$ 200 | | |
| Compile Watershed Plan | 0 | 0 | 0 | 8 | | 8 | \$ 819 | | | |
| | | | | | | 44 | \$ 4,877 | \$ 200 | | \$ 5,077 |
| Hydrologic & Hydraulic Modeling | | | | | | | | | | |
| HydroCAD - Existing Conditions Model | 0 | 4 | 0 | 12 | | 16 | \$ 2,112 | | | |
| Alternatives | 0 | 2 | 0 | 12 | | 14 | \$ 1,670 | | | |
| Price Alternative | 0 | 1 | 0 | 4 | | 5 | \$ 630 | \$ - | | |
| QA/QC & Revisions | 1 | 1 | 2 | 4 | | 8 | \$ 950 | | | |
| | | | | | | 43 | \$ 5,363 | \$ - | | \$ 5,363 |
| Technical Memo | | | | | | | | | | |
| Draft | 1 | 2 | | 8 | | 11 | \$ 1,261 | \$ - | | |
| Final | | 2 | 0 | 4 | | 6 | \$ 851 | | | |
| QA/QC & Revisions | 1 | 1 | 2 | 2 | | 6 | \$ 746 | \$ - | | |
| | | | | | | 23 | \$ 2,858 | \$ - | | \$ 2,858 |
| Meetings | | | | | | | | | | |
| Coordination and Meetings (2) | 0 | 6 | 0 | 0 | | 6 | \$ 1,325 | | | |
| | 0 | 0 | 0 | 0 | | 0 | \$ - | | | |
| | 0 | 0 | 0 | 0 | | 0 | \$ - | | | |
| | 0 | 0 | 0 | 0 | | 0 | \$ - | | | |
| | | | | | | 6 | \$ 1,325 | \$ - | | \$ 1,325 |
| | | | | | | | Subtotal | | | |
| | | | | | | | 116 | | | \$ 14,622 |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 12/4/2018 Date of Last Edit: 3/23/2021

Project Title: Linwood Area Drainage Study
 Category: Infrastructure
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
- Maintain Service
- Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

There has been an increase in call outs for drainage issues within the Linwood area. These call outs have increased with the high intensity rainfall events that have been experienced in the past 6+ years.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|-----------------|--|------------|------------|------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$15,400 | \$15,400 | | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$15,400 | \$15,400 | \$0 | \$0 | \$0 | \$0 |

Funding Source(s) Check all that apply

- Tax Levy
- Debt
- Enterprise Receipts
- Stabilization
- Free Cash
- Revolving Fund
- CPA
- Grant(s) or Other Ch90,MVP,HMG

| | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------------|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
- Recreation
- Historical
- Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Linwood Area Drainage Study
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 2020
Department: Public Works-Highway Division

Existing Conditions

Over the past years, we have experienced a number intense rainfall events, which exposed a variety of drainage issues that have resulted in flooding in the Linwood area. Most recently, the flooding impacted the intersection of Linwood/Church and impacted the resident opposite of Church Street.

Project Description

Fully map the closed drainage sysetm, evaluate the affected drainage area and develop solutions to the flooding issues.

Justification/Benefits

The resident on Linwood has been impacted by the extreme flooding in the area. Analysis of the drainage system and watershed will allow for a prioritization plan to be developed and programed for future years.

Operating Budget Discussion

Increased contractor costs to evaluate, clean, map and inspect affected drainage sysetm.

Estimate Basis

Received proposal estimate from consultant to perform this drainage evaluation/study.

Time/Project Schedule

FY2022

Alternatives

- 1) Do nothing and continue to have claims submitted by residents.
- 2) Evaluate watershed and develop alternatives for drainage improvements.

Key Assumptions

Study required to determine capital alternatives.

Other

We will contine to evaluate other funding sources. We have been working closely with the local legislative staff to investigate alternative funding.



November 25, 2020

Mr. Benn S. Sherman, Director
Department of Public Works
Town of Uxbridge
147 Hecla Street
Uxbridge, MA 01569

Re: Linwood Street at Church Street Drainage Study

Dear Mr. Sherman:

BETA Group Inc. is pleased to submit this scope of services to the Town of Uxbridge under an Agreement for a Drain Study to identify potential causes of flooding issues reported at Linwood Street, Church Street and Park Street.

PROJECT UNDERSTANDING, DESCRIPTION AND APPROACH

Flooding on Linwood Street near Church St is causing traffic safety issues. Residents indicate excessive runoff down Church Street during rainfall events. The Town would like to understand the issues causing this problem and identify potential improvement opportunities.

The Linwood Street watershed area is approximately 28.5 acres with 71 known drainage structures and 4,340± linear feet of drainage pipe.

The plan is to compile data from GIS and Town plans to develop a watershed plan and conduct field observations to confirm and/or update the data. Using that information, a hydrologic model will be developed to evaluate capacity or other issues. From that information BETA will evaluate the existing drainage system for the areas draining to Linwood Street and the outfall including Church Street and Lake Street. The model will help identify contributing factors to stormwater-related flooding on Linwood Street and to develop recommendations to improve stormwater drainage and alleviate flooding, including potential nature-based solutions or green infrastructure.

SCOPE OF SERVICES

Tasks to be performed by BETA include the following:

Develop a computer model of the drainage study area to simulate existing hydrologic and hydraulic conditions, as well as to identify and evaluate opportunities to improve the existing stormwater drainage system(s).

Develop conceptual level alternatives to address residential flooding, stormwater drainage capacity, and seepage and piping.

Develop conceptual level cost estimates for these alternatives

Summarize the results of the drainage study and recommendations in a technical memorandum

1. DATA COLLECTION AND FIELD VERIFICATION

A. Compile Available Data

Compile and review available information for the watershed, including:

- a. GIS data for stormwater features
- b. Photogrammetry to trace impervious surfaces and wooded areas.
- c. Record plans and calculations showing stormwater structures and treatment basins
- d. Obtain LiDAR - topography (2-foot contours) to create a surface
- e. NRCS soils data
- f. Other record reports

B. Develop Watershed Plan

Combine gathered data in an AutoCAD Civil3D plan including:

- a. Delineate watershed area to each catchbasin
- b. Provide area (sq. ft.) of impervious, grass and woodland areas
- c. Show time of concentration flow lines (if Tc is likely greater than 6 minutes)

C. Conduct Field Observations and Survey

Conduct a field visit(s) to:

- a. Provide photo survey of each catchbasin and stormwater control structure
- b. Verify watershed and surface conditions
- c. Investigate system connectivity questions

2. HYDROLOGIC AND HYDRAULIC MODELING

A. Develop Hydrologic/Hydraulic model

Develop a computer model of the drainage study area to simulate existing hydrologic and hydraulic conditions, as well as to identify and evaluate opportunities to improve the existing stormwater drainage system

3. DRAINAGE IMPROVEMENT ALTERNATIVES

A. Develop alternatives

Brainstorm options to reduce frequency and severity of flooding in the project areas. Consider impacts to local residents, current Town and private infrastructure, environmental impacts

B. Develop Potential Construction Costs for Alternatives

Develop an Order of Magnitude Engineering and Construction Costs for each alternative.

4. DELIVERABLES, MEETINGS AND PROJECT COORDINATION

A. Deliverables

The following will be provided:

- a. Technical Memo outlining the problem(s), data, procedures, modeling, alternative investigated with associated costs.
- b. Additional collected data including Survey data, camera videos and inspection reports.

B. Meetings

Prepare for and attend up to two (2) meetings with the Town to gather information and/or discuss results of the report.

5. ASSUMPTIONS

Effort under this task includes the following assumptions.

1. Town to provide available road/drainage plans and drainage plans and calculations for use as basis for modeling
2. Proposal includes 1 day for two person crew to verify structures, any additional survey necessary for this task to be provided by the Town.
3. Soils investigations not included.

FEE

The FEE for the scope of services identified above is not to exceed \$15,400 as itemized on attached worksheet.

Any additional meetings or items not included under this scope of services (described above) will be billed based on BETA's standard billing rate (time and material) and shall be approved by the Town of Uxbridge.

If we can be of any further assistance regarding this matter, please contact us at our office.

Very truly yours,
BETA Group, Inc.



Philip F Paradis, Jr., PE
Associate

Job No: 6991



JOB Linewood & Church St Drainage
 CALC PFP
 CHKD
 DESC Fee Estimate Worksheet

NO. 6991 T2
 DATE 11/25/20
 DATE
 SHEET 1 OF 1

High St, Park St, & South Main St Drainage

| Task | Labor (Hours) | | | | | | Expenses | | | Task Total |
|---|---------------|----|----|-----|------|-------------|------------------------|-----------|--|---------------|
| | Prin | PM | PE | ENG | Tech | Total HR | Labor Total (\$) | Travel \$ | | |
| Data Collection and Field Verification | | | | | | | | | | |
| Compile GIS, Data, Phogrametry, Soils & LiDar | | 2 | 0 | 8 | | 10 | \$ 1,261 | | | |
| Delineate Watersheds (areas, Tc) | 0 | 2 | 0 | 12 | | 14 | \$ 1,670 | | | |
| Field Verify Sturctures | 0 | 0 | 0 | 8 | 8 | 16 | \$ 1,536 | \$ 200 | | |
| Compile Watershed Plan | 0 | 0 | 0 | 8 | | 8 | \$ 819 | | | |
| | | | | | | 48 | \$ 5,286 | \$ 200 | | \$ 5,486 |
| Hydrologic & Hydraulic Modeling | | | | | | | | | | |
| HydroCAD - Existing Conditions Model | 0 | 4 | 0 | 16 | | 20 | \$ 2,522 | | | |
| Alternatives | 0 | 2 | 0 | 12 | | 14 | \$ 1,670 | | | |
| Price Alternative | 0 | 1 | 0 | 4 | | 5 | \$ 630 | \$ - | | |
| QA/QC & Revisions | 1 | 1 | 2 | 4 | | 8 | \$ 950 | | | |
| | | | | | | 47 | \$ 5,773 | \$ - | | \$ 5,773 |
| Technical Memo | | | | | | | | | | |
| Draft | 1 | 2 | | 8 | | 11 | \$ 1,261 | \$ - | | |
| Final | | 2 | 0 | 4 | | 6 | \$ 851 | | | |
| QA/QC & Revisions | 1 | 1 | 2 | 2 | | 6 | \$ 746 | \$ - | | |
| | | | | | | 23 | \$ 2,858 | \$ - | | \$ 2,858 |
| Meetings | | | | | | | | | | |
| Coordination and Meetings (2) | 0 | 6 | 0 | 0 | | 6 | \$ 1,325 | | | |
| | 0 | 0 | 0 | 0 | | 0 | \$ - | | | |
| | 0 | 0 | 0 | 0 | | 0 | \$ - | | | |
| | 0 | 0 | 0 | 0 | | 0 | \$ - | | | |
| | | | | | | 6 | \$ 1,325 | \$ - | | \$ 1,325 |
| | | | | | | | Subtotal | | | |
| | | | | | | 124 | | | | \$ 15,442 |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 12/4/2018 Date of Last Edit: 3/3/2021

Project Title: Albee Road Culvert Replacement
 Category: Bridges/Culverts
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The DPW Highway Division experienced additional overtime and material costs to close roadway, engage contractor to "jet" culvert, and support the Uxbridge Fire Department during the flooding events.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|------------------|--|------------|------------|------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$0 | | | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$150,000 | \$150,000 | | | | |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$150,000 | \$150,000 | \$0 | \$0 | \$0 | \$0 |

Funding Source(s)
Check all that apply

Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other Ch90, MVP,HMG

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s)
Check all that apply

Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Albee Road Culvert Replacement
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022

Initiation Date: 2018
Department: Public Works-Highway Division

Existing Conditions

In November 2018, there was an incident where the culvert was blocked and water overtopped the roadway. The corrugated metal pipe is rusted and failing. The DPW subsequently closed the roadway for public safety purposes during 2018 and 2019.

Project Description

Construct a new culvert to replace the existing structure and associated roadside structures.

Justification/Benefits

Failure to address could lead to future stability issues of the roadway and lead to additional road closures.

Operating Budget Discussion

Increased overtime and material costs to inspect and ensure stability of roadway and culvert.

Estimate Basis

Design and permitting was funded through MVP II grant program. The construction is not currently funded through the Chapter 90 program.

Time/Project Schedule

FY2022 for construction

Alternatives

- 1) No action and experience future flooding and potential compromised roadway and road closures.
- 2) Construct improvements based on completed design.

Key Assumptions

Alternative funding required as Chapter 90 Funding is currently programmed for road work

Other

Utilized MVP grant for design and permitting costs.



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 9/14/2020 Date of Last Edit: 3/3/2021

Project Title: Sutton Street Culvert Replacement Project
 Category: Bridges/Culverts
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The Highway Division constantly has to address the pothole situation caused by the failing culvert. Failure to address will ultimately lead to road failure and road closure.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|--------------------|--|--------------------|------------|------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$165,475 | \$165,475 | | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$1,200,000 | | \$1,200,000 | | | |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$1,365,475 | \$165,475 | \$1,200,000 | \$0 | \$0 | \$0 |

Funding Source(s)
Check all that apply

Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other Ch90

| | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------------|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s)
Check all that apply

Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Sutton Street Culvert Replacement Project
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2023

Initiation Date: 2018
Department: Public Works-Highway Division

Existing Conditions

The culverts are in a failing condition leading to road surface issues. The twin 36-inch corrugated metal pipes are rusted, falling apart and leading to roadway stability issues.

Project Description

Completion of design to meet stream crossing standards and Chapter 85 design review by MassDOT. This request includes probable construction of a new cross culvert to meet stream crossing standards.

Justification/Benefits

Maintenance activities continue to increase as there is further deterioration of the culvert

Operating Budget Discussion

Increased operating budget costs to address road surface issues

Estimate Basis

Design through 60% was funded through the MVP II grant program. Additional funds are needed to complete the design in accordance with stream crossing standards, which require Chapter 85 (MassDOT review). Construction funding is now needed as we did not get awarded the MVP III grant which included funding for construction.

Time/Project Schedule

FY2023

Alternatives

- 1) No action and experience future flooding and potential compromised roadway and road closures.
- 2) Construct improvements based on completed design.

Key Assumptions

Alternative funding required as Chapter 90 Funding is currently programmed for road work.

Other

Utilized MVP grant for design costs.



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/7/2019 Date of Last Edit: 3/2/2021

Project Title: Culvert Replacement/Rehabilitation Program
 Category: Infrastructure
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Operating budget and Chapter 90 funds can not sustain the needs of the program.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|--------------------|--|------------------|------------------|------------------|------------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$388,000 | \$73,000 | \$66,000 | \$59,000 | \$117,000 | \$73,000 |
| Land Acquisition | \$0 | | | | | |
| Construction | \$1,214,000 | | \$271,000 | \$256,000 | \$234,000 | \$453,000 |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$1,602,000 | \$73,000 | \$337,000 | \$315,000 | \$351,000 | \$526,000 |

Funding Source(s) Check all that apply

- Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Culvert Replacement/Rehabilitation Program
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 1/7/19
Department: Public Works-Highway Division

Existing Conditions

See 2011 Bridge and Culvert inspection report and Fuss & Oneill MVP report

Project Description

Design and construction of structures that were identified in the 2011 Bridge and Culvert Management Plan (and periodic updates), MassDOT Bridge inspection reports and Fuss & Oneill MVP report.

Justification/Benefits

These structures require maintenance/replacement as noted in the various studies and reports. Continued differral of maintenance will result in increased construction costs.

Operating Budget Discussion

These are capital requests that exceed the budgetary guidelines.

Estimate Basis

Based on engineering consultant estimates.

Time/Project Schedule

FY2022-2031

Alternatives

- 1) Do nothing and experience additional maintenance/replacement costs or possible failure and road closures.
- 2) Implement plan to address deficiencies.

Key Assumptions

Supplemental funding is required to address the noted deficiencies.

Other

The DPW is working with our consultant to perform a comprehensive update to the 2011 Bridge and Culvert Management Plan. This work will be completed this summer.

Table 1. Top-Ranked High Priority Crossings: Road-Stream Crossing Vulnerability Assessment and Prioritization Results Summary

| Road Name | HUC 12 Watershed Name | Impact Score | Existing Hydraulic Risk Score | Future Hydraulic Risk Score | Geomorphic Risk Score | Structural Risk Score | AOP Benefit Score | Crossing Risk Score | Crossing Priority Value | Scaled Crossing Priority | Relative Priority Rating |
|-----------------------------|---|--------------|-------------------------------|-----------------------------|-----------------------|-----------------------|-------------------|---------------------|-------------------------|--------------------------|--------------------------|
| Crown and Eagle Road | Mumford River | 5 | 25 | 25 | 20 | 25 | 15 | 25 | 45 | 0.9 | High |
| Route 16/Douglas Street | Mumford River | 5 | 5 | 5 | 20 | 25 | 9 | 25 | 42 | 0.84 | High |
| Route 16/Mendon Street | West River | 4 | 4 | 4 | 16 | 20 | 20 | 20 | 40 | 0.8 | High |
| Hartford Avenue East | Mumford River | 5 | 5 | 5 | 15 | 25 | 4 | 25 | 39.5 | 0.79 | High |
| Taft Hill Lane | Mumford River | 5 | 10 | 15 | 10 | 25 | 3 | 25 | 39 | 0.78 | High |
| Hunter Road | Mumford River | 4 | 4 | 4 | 16 | 20 | 12 | 20 | 36 | 0.72 | High |
| Crownshield Avenue | Blackstone River-West River to Peters River | 4 | 4 | 8 | 16 | 20 | 12 | 20 | 36 | 0.72 | High |
| Crownshield Avenue | Blackstone River-West River to Peters River | 4 | 4 | 4 | 20 | 20 | 10 | 20 | 35 | 0.7 | High |
| High Street | Mumford River | 4 | 20 | 20 | 12 | 20 | 9 | 20 | 34.5 | 0.69 | High |
| Route 16/Douglas Street | Blackstone River-West River to Peters River | 4 | 20 | 20 | 12 | 20 | 9 | 20 | 34.5 | 0.69 | High |
| Route 16/Douglas Street | Mumford River | 4 | 20 | 20 | 16 | 20 | 9 | 20 | 34.5 | 0.69 | High |
| Route 16/Douglas Street | Mumford River | 4 | 4 | 4 | 16 | 20 | 9 | 20 | 34.5 | 0.69 | High |
| 146a/Quaker Highway | Blackstone River-West River to Peters River | 4 | 4 | 4 | 12 | 20 | 8 | 20 | 34 | 0.68 | High |
| Route 122/North Main Street | Mumford River | 4 | 20 | 20 | 12 | 20 | 8 | 20 | 34 | 0.68 | High |

UXBRIDGE BRIDGE AND CULVERT MANAGEMENT PLAN (2011)

BUDGETARY COST ESTIMATE SUMMARY

| Priority | Carries | Intersects | Recommended Action | Replacement Cost | Replacement Engineering | Replacement Total (2011) | Replacement Cost | Replacement Engineering | Replacement Total (2022) | Repairs | Repairs Engineering | Escalator | 3.50% |
|---------------|-------------------------|-------------------|----------------------|------------------|-------------------------|--------------------------|------------------|-------------------------|--------------------------|--------------|---------------------|----------------------|----------------------|
| | | | | | | | | | | | | Repairs Total (2011) | Repairs Total (2022) |
| 3 | Hollis Street | Meadow Brook | Replacement/Widening | \$ 185,000 | \$ 50,000 | \$ 235,000 | \$ 271,000 | \$ 73,000 | \$ 344,000 | \$ - | \$ - | \$ - | \$ - |
| 4 | West Street | Scadden Brook | Replacement | \$ 175,000 | \$ 45,000 | \$ 220,000 | \$ 256,000 | \$ 66,000 | \$ 322,000 | \$ - | \$ - | \$ - | \$ - |
| 5 | Old Providence Turnpike | Ironstone Brook | Replacement | \$ 160,000 | \$ 40,000 | \$ 200,000 | \$ 234,000 | \$ 59,000 | \$ 292,000 | \$ - | \$ - | \$ - | \$ - |
| 6 | Elm Street | Rivulet Brook | Replacement | \$ 310,000 | \$ 80,000 | \$ 390,000 | \$ 453,000 | \$ 117,000 | \$ 570,000 | \$ - | \$ - | \$ - | \$ - |
| 7 | Henry Street | West River | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 8 | Carney Street | Drabbetail Brook | Replacement | \$ 190,000 | \$ 50,000 | \$ 240,000 | \$ 278,000 | \$ 73,000 | \$ 351,000 | \$ - | \$ - | \$ - | \$ - |
| 9 | Hazel Street | Cold Spring | Slip-Line | \$ 105,000 | \$ 30,000 | \$ 135,000 | \$ 154,000 | \$ 44,000 | \$ 198,000 | \$ - | \$ - | \$ - | \$ - |
| 10 | South Street | Bacon Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 60,000 | \$ 15,000 | \$ 75,000 | \$ 110,000 |
| 11 | Aldrich Street | Aldrich Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 110,000 | \$ 30,000 | \$ 140,000 | \$ 205,000 |
| 12 | Elmwood Avenue | Aldrich Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 75,000 | \$ 20,000 | \$ 95,000 | \$ 139,000 |
| 13 | Hartford Avenue East | Mumford River | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 365,000 | \$ 95,000 | \$ 460,000 | \$ 672,000 |
| 14 | Mill Street | Emerson Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 95,000 | \$ 25,000 | \$ 120,000 | \$ 176,000 |
| 15 | Hartford Avenue East | Blackstone Canal | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 85,000 | \$ 25,000 | \$ 110,000 | \$ 161,000 |
| 16 | Rock Meadow Road | Rockmeadow Brook | Slip-Line | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 80,000 | \$ 20,000 | \$ 100,000 | \$ 146,000 |
| 17 | West Street | Laurel Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 60,000 | \$ 15,000 | \$ 75,000 | \$ 110,000 |
| 18 | Laurel Street | Laurel Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 65,000 | \$ 20,000 | \$ 85,000 | \$ 125,000 |
| 19* | Hecla Street | West River | NA | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 20 | Rivulet Street | Rivulet Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 50,000 | \$ 15,000 | \$ 65,000 | \$ 95,000 |
| 21 | Hartford Avenue East | Mumford Tail Race | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 15,000 | \$ 5,000 | \$ 20,000 | \$ 30,000 |
| 22 | Hartford Avenue East | Blackstone River | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 70,000 | \$ 20,000 | \$ 90,000 | \$ 132,000 |
| 23 | Depot Street | Mumford River | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 50,000 | \$ 15,000 | \$ 65,000 | \$ 95,000 |
| 24 | Hartford Avenue East | West River | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 10,000 | \$ 5,000 | \$ 15,000 | \$ 22,000 |
| 25 | Blackstone Street | Meadow Brook | Repairs | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 20,000 | \$ 5,000 | \$ 25,000 | \$ 37,000 |
| Totals | | | | \$ 1,125,000 | \$ 295,000 | \$ 1,420,000 | | | \$ 2,077,000 | \$ 1,210,000 | \$ 330,000 | \$ 1,540,000 | \$ 2,255,000 |

* MassDOT utilized their design consultant to prepare plans but the District is now looking for construction funding from the Town

1. It is important to note the MVP program recently evaluated a number of additional culverts in town and provided recommendations for action. This information will be evaluated and added to this summary.
2. There were many of the structures that were recommended for more frequent inspections due to its condition. Furthermore, the above structures should be reassessed for further decline in the asset management rating.



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/7/2019 Date of Last Edit: 3/3/2021

Project Title: Highway Equipment Replacement Program
 Category: Equipment
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The current fleet of rolling stock is aged and tired. Continued use of budget funds to repair and keep in service is taking its toll on the staff and our ability to maintain a consistent level of service. The acquisition of these vehicles as part of the vehicle replacement program updates the DPW fleet and improves efficiency within the department. The goal is to replace equipment before the cost of ongoing repairs exceeds the vehicles usefulness. Annual updating of equipment is a useful tool in stabilizing vehicle repairs costs. Improved fuel economy, cleaner emissions and safer state of the art equipment results in a more efficient management of the fleet.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|--------------------|--|------------------|------------------|------------------|------------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$0 | | | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$1,010,000 | \$200,000 | \$200,000 | \$120,000 | \$290,000 | \$200,000 |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$1,010,000 | \$200,000 | \$200,000 | \$120,000 | \$290,000 | \$200,000 |

Funding Source(s)
Check all that apply

Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s)
Check all that apply

Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Highway Equipment Replacement Program
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 1/7/19
Department: Public Works-Highway Division

Existing Conditions

The existing fleet is aged and tired. Rolling stock ranges from 1987 to the present.

Project Description

Replace vehicles/equipment listed in the supplemental information sheet

Justification/Benefits

The acquisition of these vehicles as part of the vehicle replacement program updates the DPW fleet and improves efficiency within the department. The goal is to replace equipment before the cost of ongoing repairs exceeds the vehicles service life. Improved fuel economy, cleaner emissions and safer state of the art equipment results in a more efficient management of the fleet.

Operating Budget Discussion

The DPW expends an excessive amount of budget to keep equipment in service.

Estimate Basis

Vehicle and equipment costs are from current state contract and recent purchases. These costs were inflated to the future year of purchase/replacement.

Time/Project Schedule

Ongoing annual replacement

Alternatives

Continued use of maintenance funds to keep vehicles on the road.

Key Assumptions

Purchase from State contract.

Other



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS

Benn S. Sherman, P.E.
 Director

147 HECLA STREET
 UXBRIDGE, MASSACHUSETTS 01569-1326
 508-278-8616 ♦ Fax 508-278-3179

FY 2022-2026 DPW FLEET SUPPLEMENTAL INFORMATION

Highway Division

FY2022



1990 International 6-Wheel Cab & Chassis (H-2): This truck was planned to be replaced in FY2021 but was deferred due to another truck that was taken out of service. This truck has over 300,000 miles (estimated odometer no longer working and vehicle was purchased with over 246,000). This truck was purchased used and was an over the road tractor that was converted for use by the DPW. This truck has a history of electrical issues (including an electrical fire), excessive corrosion and other mechanical problems. It will be replaced with a similar truck that is consistent with the fleet.

FY2023



1987 Mack 6-Wheel Dump (H-13): The odometer has not worked in this vehicle for quite some time but it does have over 7,064 hours. This truck has a history of mechanical problems. Reliability and severe corrosion have necessitated this vehicle replacement. It will be replaced with a similar truck that is consistent with the fleet.

FY2024



2000 Woodsman Chipper (CH-1): This piece of equipment has over 1,231 hours of operation. It is used for tree maintenance and storm cleanup. It has become a front-line piece of equipment for the Division. This piece of is exhibits increased maintenance costs in order to keep it in service. The manufacturer is no longer in business and we are experiencing issues with getting replacement parts. It will be replaced with a similar unit.



| | |
|---|---|
|  A photograph of a grey Gardner-Denver DT90 compressor truck parked in a workshop. The truck has a yellow crane mounted on its bed and a yellow traffic cone on top. The number "3" is visible on the side of the truck. | <p>1987 Gardner-Denver Compressor: This piece of equipment has over 1,060 hours. It is used for a variety of Highway Division activities and is considered a front-line piece of equipment. This piece of equipment has exceeded its useful life and will be replaced with a similar unit.</p> |
| FY2025 | |
|  A photograph of a black 2003 Ford F450 SD pickup truck with a dump body, parked in a lot. The truck has a yellow circular logo on the door. | <p>2003 Ford F450 SD Pickup (H-9): This truck has 93,743 miles. This truck has a history of mechanical problems resulting in increased maintenance costs. It will be replaced with a similar truck that is consistent with the fleet.</p> |
|  A photograph of a green 1988 Mack Cab & Chassis truck with a dump body, parked in a garage. The truck has a yellow circular logo on the door. | <p>1988 Mack Cab & Chassis (H-8): This truck has 110,486 miles (7,806 hours). This truck has a history of mechanical issues as well as extensive corrosion. It will be replaced with a similar truck that is consistent with the fleet.</p> |
| FY2026 | |
|  A photograph of a green 1989 Mack Cab & Chassis truck with a dump body, parked in a lot. The truck has a yellow circular logo on the door. | <p>1989 Mack Cab & Chassis (H-6): This truck has 126,495 miles (7,193 hours). A couple of years ago, this vehicle was totaled in an accident but was rebuilt to keep it in service. This truck has a history of mechanical issues and excessive corrosion. It will be replaced with a similar truck that is consistent with the fleet.</p> |



TOWN OF UXBRIDGE
DEPARTMENT OF PUBLIC WORKS

147 HECLA STREET
UXBRIDGE, MASSACHUSETTS 01569-1326
508-278-8616 ♦ Fax 508-278-3179

Benn S. Sherman, P.E.
Director

Town of Uxbridge
Department of Public Works Fleet Schedule

| ITEM | DEPT | CALL # | YEAR | MAKE/MODEL | CLASS | SERV LIFE EARLY | SERV LIFE LATE | AGE |
|--------------|-----------|--------|------|------------------------|------------------------------|-----------------|----------------|------|
| 422 | DPW/HWY | | 1985 | LONG HAUL | TRAILER: UTILITY | 10 | 15 | 36.2 |
| 422 | DPW/HWY | | 1987 | GARDN | CONSTRUCTION: COMPRESSOR | 10 | 15 | 34.2 |
| 422 | DPW/HWY | H-13 | 1987 | MACK R685T | 6-WHEEL DUMP | 15 | 20 | 34.2 |
| 422 | DPW/HWY | H-8 | 1988 | MACK RD600 | 6-WHEEL CAB & CHASSIS | 15 | 20 | 33.2 |
| 422 | DPW/HWY | | 1989 | CENTER TA0817 | TRAILER: UTILITY | 10 | 15 | 32.2 |
| 422 | DPW/HWY | H-6 | 1989 | MACK RD600 | 6-WHEEL CAB & CHASSIS | 15 | 20 | 32.2 |
| 422 | DPW/HWY | H-2 | 1990 | INTERNATIONAL 7100 | 6-WHEEL CAB & CHASSIS | 15 | 20 | 31.2 |
| 422 | DPW/HWY | H-7 | 1990 | INTERNATIONAL 7100 | 6-WHEEL CAB & CHASSIS | 15 | 20 | 31.2 |
| 422 | DPW/HWY | H-5 | 1992 | MACK RD600 | 6-WHEEL DUMP | 15 | 20 | 29.2 |
| 422 | DPW/HWY | L-2 | 1996 | VOLVO L90C | CONSTRUCTION: LOADER | 10 | 15 | 25.2 |
| 422 | DPW/HWY | | 1997 | LOADER UTILITY TRAILER | TRAILER: UTILITY | 10 | 15 | 24.2 |
| 422 | DPW/HWY | H-15 | 1998 | FORD L8501 | 6-WHEEL DUMP | 15 | 20 | 23.2 |
| 422 | DPW/HWY | BT-1 | 2000 | FORD F350 SUPER DUTY | PICKUP 4X2 | 10 | 12 | 21.2 |
| 422 | DPW/HWY | CH-1 | 2000 | WOODSMAN CHIPPER | CHIPPER | 12 | 15 | 21.2 |
| 422 | DPW/HWY | H-11 | 2001 | INTERNATIONAL 2554 | 6-WHEEL CAB & CHASSIS | 15 | 20 | 20.2 |
| 422 | DPW/HWY | H-9 | 2003 | FORD F-450 SUPER DUTY | PICKUP: 1-TON 4X4 DUMP | 10 | 12 | 18.2 |
| 422 | DPW/HWY | DPW-1 | 2003 | FORD CROWN VICTORIA | AUTOMOBILE: FULL SIZE | 10 | 12 | 18.2 |
| 422 | DPW/HWY | H-3 | 2003 | STERLING L8500 | 6-WHEEL DUMP | 15 | 20 | 18.2 |
| 422 | DPW/HWY | | 2007 | CURTIS | TRAILER: UTILITY | 10 | 15 | 14.2 |
| 422 | DPW/HWY | T-2 | 2008 | TRACKLESS MT5 | TRACTOR: UTILITY | 10 | 12 | 13.2 |
| 422 | DPW/HWY | H-22 | 2008 | FORD F-350 | UTILITY: 3/4 TON 4X4 | 10 | 12 | 13.2 |
| 422 | DPW/HWY | MB-1 | 2008 | ASTI | TRAILER: MESSAGE BOARD | 10 | 15 | 13.2 |
| 422 | DPW/HWY | | 2009 | CARRY ON | TRAILER: UTILITY | 10 | 15 | 12.2 |
| 422 | DPW/HWY | | 2010 | NORTH NEWTON TRAILER | TRAILER: UTILITY | 10 | 15 | 11.2 |
| 422 | DPW/HWY | H-18 | 2012 | INTERNATIONAL 7400 | 6-WHEEL DUMP | 15 | 20 | 9.2 |
| 422 | DPW/HWY | L-1 | 2013 | JOHN DEERE | CONSTRUCTION: LOADER | 10 | 15 | 8.2 |
| 422 | DPW/HWY | | 2014 | CARRY ON TRAILER | TRAILER: UTILITY | 10 | 15 | 7.2 |
| 422 | DPW/HWY | L-3 | 2015 | WACKER NEUSON | CONSTRUCTION: LOADER (LIGHT) | 10 | 15 | 6.2 |
| 422 | DPW/HWY | H-12 | 2016 | FORD F-250 | PICKUP: 3/4 TON 4X4 | 10 | 12 | 5.2 |
| 422 | DPW/HWY | H-17 | 2016 | FORD F-250 | PICKUP: 3/4 TON 4X4 | 10 | 12 | 5.2 |
| 422 | DPW/HWY | H-10 | 2016 | FORD F-550 | PICKUP: 1-TON 4X4 | 10 | 12 | 5.2 |
| 422 | DPW/HWY | H-19 | 2016 | FORD F-550 | PICKUP: 1-TON 4X4 | 10 | 12 | 5.2 |
| 422 | DPW/HWY | SW-1 | 2016 | ELGIN PELICAN | STREET SWEEPER | 10 | 12 | 5.2 |
| 422 | DPW/HWY | H-24 | 2017 | MACK GU713 | 10-WHEEL DUMP | 15 | 20 | 4.2 |
| 422 | DPW/HWY | E-1 | 2017 | CAT 304E2 | CONSTRUCTION: MINI EXCAVATOR | 10 | 15 | 4.2 |
| 422 | DPW/HWY | H-4 | 2018 | FORD F550 | PICKUP: 1-TON 4X4 | 10 | 12 | 3.2 |
| 422 | DPW/HWY | H-1 | 2018 | FORD F250 | PICKUP: 3/4 TON 4X4 | 10 | 12 | 3.2 |
| 422 | DPW/HWY | T-1 | 2019 | TRACKLESS MT7 | TRACTOR: UTILITY | 10 | 12 | 0.0 |
| 422 | DPW/HWY | H-25 | 1905 | FORD F550 | PICKUP: 1-TON 4X4 | | | |
| 422 | 39 | | | | | | | |
| 440 | DPW/SEWER | S-4 | 2011 | INTERNATIONAL 7400 SAF | 6-WHEEL DUMP UTILITY 4X2 | 10 | 15 | 10.2 |
| 440 | DPW/SEWER | S-5 | 2014 | FORD F-150 | PICKUP: 1/2 TON 4X2 | 10 | 12 | 7.2 |
| 440 | DPW/SEWER | | 2015 | CARMATE | TRAILER: UTILITY | 10 | 15 | 6.2 |
| 440 | DPW/SEWER | S-2 | 2016 | FORD F-550 | UTILITY: 1-TON 4X4 | 10 | 12 | 5.2 |
| 440 | DPW/SEWER | S-3 | 2017 | FORD F-250 | PICKUP: 3/4 TON 4X4 | 10 | 12 | 4.2 |
| 440 | DPW/SEWER | S-1 | 2017 | FORD F-250 | PICKUP: 3/4 TON 4X4 | 10 | 12 | 4.2 |
| 440 | 6 | | | | | | | |
| 450 | DPW/WATER | W-4 | 2005 | FORD F-650 SUPER DUTY | 6-WHEEL DUMP W/PLOW (LGT) | 10 | 12 | 16.2 |
| 450 | DPW/WATER | | 2007 | BELMONT | TRAILER: UTILITY | 10 | 15 | 14.2 |
| 450 | DPW/WATER | | 2008 | HOMESTEADER | TRAILER: UTILITY | 10 | 15 | 13.2 |
| 450 | DPW/WATER | W-6 | 2008 | FORD RANGER | PICKUP: LIGHT 4X2 | 10 | 12 | 13.2 |
| 450 | DPW/WATER | W-2 | 2013 | FORD F-550 | PICKUP: 1-TON 4X4 | 10 | 12 | 8.2 |
| 450 | DPW/WATER | W-3 | 2014 | FORD F-150 EXT CAB | PICKUP: 1/2 TON 4X2 | 10 | 12 | 7.2 |
| 450 | DPW/WATER | W-9 | 2015 | FORD F-250 SUPER DUTY | PICKUP: 3/4 TON 4X4 | 10 | 12 | 6.2 |
| 450 | DPW/WATER | W-7 | 2015 | DITCH WITCH | CONSTRUCTION: VALVE CLEANER | 10 | 15 | 6.2 |
| 450 | DPW/WATER | W-1 | 2016 | FORD F-350 | PICKUP: 3/4 TON 4X4 | 10 | 12 | 5.2 |
| 450 | DPW/WATER | W-8 | 2018 | ALLMAND PRO2 | PORTABLE LIGHT TOWER | 10 | 15 | 3.2 |
| 450 | DPW/WATER | W-5 | 2019 | CAT | CONSTRUCTION: BACKHOE LOADER | 10 | 15 | 2.2 |
| 450 | 11 | | | | | | | |
| TOTAL | 56 | | | | | | | |

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TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/7/2019 Date of Last Edit: 3/3/2021

Project Title: Emergency Generator
 Category: Equipment
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The DPW Highway Division upper & lower garage does not have emergency backup power. DPW staff are first responders and operate in a variety of conditions.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|------------------|--|-----------------|------------|------------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$20,000 | | \$20,000 | | | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$200,000 | | | | \$200,000 | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$220,000 | \$0 | \$20,000 | \$0 | \$200,000 | \$0 |

Funding Source(s) Check all that apply

- Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other

| | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Emergency Generator
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 1/7/19
Department: Public Works-Highway Division

Existing Conditions

The Highway Division does not currently have emergency backup power.

Project Description

Design and install emergency power to support Highway & Administration.

Justification/Benefits

The DPW serves as First Responders and does not have the ability to operate during emergency conditions should there be a loss of power or natural disaster.

Operating Budget Discussion

Loss of work if power outage for extended period of times.

Estimate Basis

Preliminary estimates based on prior municipality grant applications.

Time/Project Schedule

ASAP

Alternatives

Key Assumptions

Working with MVP and Hazard Mitigation grant programs for potential funding.

Other



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/4/2019 Date of Last Edit: 3/3/2021

Project Title: Salt Shed
 Category: Building
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

The operating budget does not have the capacity to maintain the failing structure. Both sides and rear of the building are "blowing out" due to the failure of the walls.



Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|------------------|--|------------|------------|-----------------|------------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$75,000 | | | | \$75,000 | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$500,000 | | | | | \$500,000 |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$575,000 | \$0 | \$0 | \$0 | \$75,000 | \$500,000 |

Funding Source(s) Check all that apply

- Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other CHAP 90

| | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------------|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Salt Shed
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2025-2026

Initiation Date: 2009
Department: Public Works-Highway Division

Existing Conditions

The existing salt shed is in a state of disrepair and failing. The walls are "blowing out" and the size is insufficient to store an annual supply of salt to meet our needs.

Project Description

This capital project entails the design, permitting and construction of a replacement storage facility for road chemicals (salt and other liquid snow and ice chemicals) to be located at the highway facility at 145/147 Hecla Street. The existing facility lacks sufficient storage capacity for snow fighting materials and is located within the flood plain of the Blackstone River. Historical winter salt usage is over 2800 tons annually. The current facility is estimated at 900 tons. This will have a useful life of 30-years. This item has been on the capital plan previously but not funded.

Justification/Benefits

The existing structure is beyond its useful life and insufficient for our needs.

Operating Budget Discussion

Failure to upgrade/replace the structure will cause the Highway Division to continue allocating financial resources to the repair of this structure. Each year this item is passed over for consideration will result in increase construction costs due to inflation.

Estimate Basis

Estimate basis from similar DPW projects. The DPW has not secured any detailed planning or construction estimates at this time.

Time/Project Schedule

This item has been passed over since prior to 2009 and through Town Meeting articles.

Alternatives

Do nothing and continue to expend funds for the maintenance of a failing structure.

Key Assumptions

Evaluation would be needed to determine the best alternative location for locating structure.

Other



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/7/2019 Date of Last Edit: 3/3/2021

Project Title: Air Handling System
 Category: Equipment
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Both the upper and lower garages do not have adequate ventilation for the operation and maintenance of equipment. Impacts to the operating budget include potential loss of time for staff resulting from extended exposure to exhaust fumes.

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|-----------------|--|------------|------------|-----------------|------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$15,000 | | | | \$15,000 | |
| Land Acquisition | \$0 | | | | | |
| Construction | \$0 | | | | | |
| Equipment/Furnishings | \$50,000 | | | | \$50,000 | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$65,000 | \$0 | \$0 | \$0 | \$65,000 | \$0 |

Funding Source(s) Check all that apply

- Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other

| | | | | | | |
|------------------------|------------|------------|------------|------------|------------|------------|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

CPA Purposes(s) Check all that apply

- Open Space
 Recreation
 Historical
 Housing

Operating Budget Impact

| | | | | | | |
|----------------|--|--|--|--|--|--|
| During Project | | | | | | |
|----------------|--|--|--|--|--|--|

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Air Handling System
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2022-2026

Initiation Date: 1/7/19
Department: Public Works-Highway Division

Existing Conditions

The existing garage (100 year old building) houses a majority of the Highway Division fleet and equipment. At the present time, there is no air handling equipment installed. The upper garage has two repurposed plyovent drops to be utilized by the mechanic when performing maintenance activities.

Project Description

Evaluate the needs and develop a mitigation plan to address air quality issues. Install air handling equipment.

Justification/Benefits

An air handling system will filter out unsafe particulates from combustion engines. Expanding and putting into service the air handling system will provide for the health and safety of the DPW staff that work in and around the garage. When trucks are started and in operation inside the building, the exhaust fumes are unsafe for the staff to endure.

Operating Budget Discussion

Estimate Basis

Preliminary

Time/Project Schedule

Alternatives

Continue to provide an unsafe work environment for staff.

Key Assumptions

Other



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Capital Improvement Request

Date Submitted: 1/7/2019 Date of Last Edit: 3/3/2021

Project Title: Highway Garage Addition
 Category: Building
 Department: Public Works-Highway Division

Project: New Recurring Resubmission
 Multiyear Phase of

Department Priority

- Urgent/Legally Required
 Maintain Service
 Enhancement

Discuss Operating Budget Impact: *Explain the project's short- and long-term impacts on the community's operating budget.*

Recommended Financing

| Funding Category | Five-Year Total | Estimated Project Costs by Fiscal Year | | | | |
|-----------------------|--------------------|--|------------|------------|------------|--------------------|
| | | FY2022 | FY2023 | FY2024 | FY2025 | FY2026 |
| Study/Design | \$100,000 | | | | | \$100,000 |
| Land Acquisition | \$0 | | | | | |
| Construction | \$1,000,000 | | | | | \$1,000,000 |
| Equipment/Furnishings | \$0 | | | | | |
| Contingency | \$0 | | | | | |
| Other | \$0 | | | | | |
| TOTAL | \$1,100,000 | \$0 | \$0 | \$0 | \$0 | \$1,100,000 |

- Funding Source(s)**
Check all that apply
- Tax Levy
 Debt
 Enterprise Receipts
 Stabilization
 Free Cash
 Revolving Fund
 CPA
 Grant(s) or Other

| | | | | | | |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Grant Amount Requested | | | | | | |
| CPA Amount Requested | | | | | | |
| Net of CPA and Grants | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

- CPA Purposes(s)**
Check all that apply
- Open Space
 Recreation
 Historical
 Housing

| | | | | | | |
|--------------------------------|--|--|--|--|--|--|
| Operating Budget Impact | | | | | | |
| During Project | | | | | | |

| | |
|-----------------------|--|
| Post-Project Annual | |
| Post-Project One-time | |



TOWN OF UXBRIDGE CAPITAL PROJECT SUBMISSION

Project Fact Sheet

Project Title: Highway Garage Addition
Project Initiator: Benn Sherman
Projected Fiscal Year Start/Finish: FY2026

Initiation Date: 1/7/19
Department: Public Works-Highway Division

Existing Conditions

The upper garage located at 147 Hecla Street now houses the maintenance operations. Since the structure was constructed, there was a plan to expand the size of the garage to include a upgraded driver's room/facilities and additional work bays. The lower garage is over 100 years old and is not sufficient for the needs of the DPW Highway Division.

Project Description

This capital project entails the design, permitting and construction of an addition to the highway garage. This addition will add an additional vehicle bay and employee work/break room. This was originally planned following the construction of the building in the early 2000's. The current driver's room and facilities are do not meet the needs of the staff. This will have a useful life of 50-years. This item has been on the capital plan previously but not funded.

Justification/Benefits

This addition will provide better working conditions for the staff and additional fleet maintenance needs. The impact of not undertaking this endeavor include substandard working conditions in a 100+ year old building. There are safety concerns with the lack of an air handling system in the lower garage.

Operating Budget Discussion

Estimate Basis

Estimate was based on prior correspondence when preliminary design was completed prior to 2009.

Time/Project Schedule

Alternatives

Key Assumptions

Study and evaluation required.

Other